



COMPILATION OF CATCH, ESCAPEMENT, AGE, SEX, AND SIZE DATA FOR
SALMON (Oncorhynchus sp.) RETURNS TO THE YAKUTAT AREA, 1984

Compiled and Edited by:
Douglas N. McBride

March 1986

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Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

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FOR SALMON (*Oncorhynchus* sp.) RETURNS TO THE YAKUTAT AREA,
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ABSTRACT

Abundance, age, sex, and size data were presented for the adult salmon (*Oncorhynchus* sp. Walbaum) returns to the Yakutat area, Alaska. Salmon returns to the various systems were variable. Chinook salmon (*O. tshawytscha* Walbaum) returns were strong to the Situk and Akwe Rivers; but were again weak to the Alsek River. Sockeye salmon (*O. nerka* Walbaum) returns were extremely poor in several Yakutat area fisheries. The small return to the Situk River prompted prolonged closures of the Situk River, Lost River, Yakutat Bay, and Manby Shore fisheries. Situk River fish were assumed to be major contributors to these fisheries due to similarities in run timing and age composition among these fisheries. Coho salmon (*O. kisutch* Walbaum) were strong and composed of approximately equal proportions of age 1.1 and 2.1 fish. The chum salmon (*O. keta* Walbaum) return to the East Alsek River was the largest since statehood.

KEY WORDS: Chinook salmon, *Oncorhynchus tshawytscha*, sockeye salmon, *O. nerka*, coho salmon, *O. kisutch*, chum salmon, *O. keta*, Yakutat area, biological sampling.

INTRODUCTION

Yakutat area drainages (Figure 1) support returns and fisheries of all five North American species of Pacific salmon (*Oncorhynchus* sp. Walbaum). Sockeye salmon (*O. nerka*) are the most intensively harvested salmon species in the Yakutat area and support terminal commercial gillnet fisheries in the East Alsek, Alsek, Akwe, Italio, Situk, and Lost Rivers. All of these river systems also support fisheries on chinook (*O. tshawytscha*), coho (*O. kisutch*), and chum (*O. keta*) salmon. Several river systems north of Yakutat Bay (the Yahtse, Tsiu, and Kaliakh Rivers) are major producers of coho salmon and support terminal gillnet fisheries for this species. Gillnet fisheries harvesting mixed stocks of salmon occur in the Manby Shore area and Yakutat Bay and target primarily on sockeye and coho salmon. The Yakutat coastal waters also support mixed-stock troll fisheries targeting on coho salmon¹.

Resource managers² are currently faced with a wide range of resource assessment and allocative issues involving Yakutat area fisheries. Sockeye salmon stocks in the area have been highly variable, and as a result present a variety of fishery management problems. Sockeye salmon returns to the Situk River have steadily declined since the peak of the fishery in the early 1900's and reached an all-time low in 1984. Efforts to formulate a strategy to reverse this trend have been hampered by: (1) the lack of historical age-at-return data to determine optimum brood levels; and (2) the inability to quantify interceptions of Situk River fish in the Yakutat Bay, Manby Shore, and Kayak Island fisheries (McBride et al. 1984). Conversely, sockeye salmon returns to the East Alsek River have dramatically increased in recent years and currently support the largest sockeye salmon fishery in the Yakutat area. These divergent trends have contributed to large shifts in fishing effort and alterations in fishing schedules. Yakutat area coho salmon returns, although variable, have generally been healthy. Management of the coho salmon resource has been hampered by the lack of: (1) precise spawning stock evaluation techniques; (2) pre-season forecasts of abundance to address wide fluctuations in returns; and (3) the inability to assess the effects of coastal and offshore troll fisheries on individual stocks. Chinook salmon returns have generally been depressed requiring resource managers to institute regulatory measures to minimize commercial exploitation in the inshore commercial fisheries. Management of both the sockeye and chinook salmon returns to the Alsek River, a transboundary river between the United States and Canada, has been complicated by allocative controversies between the lower river commercial fishery and the upriver sport and subsistence fisheries.

¹ The troll fishery is not addressed in this report. The magnitude and age, sex, and size composition of these fisheries have been reported in the Alaska Department of Fish and Game Technical Data Report series (Juneau, AK) since 1982.

² The Alaska Department of Fish and Game manages most of the fisheries in the Yakutat area. The Canadian Department of Fisheries and Oceans manages the fisheries in the upper Alsek River drainage.

Figure 1. Map of Yakutat, Alaska, showing fishing district boundaries.

In order to address these and other concerns involving management of the Yakutat salmon resource requires knowledge of certain fundamental parameters of each contributing population or stock. Of particular importance is determination of brood stock requirements needed to maintain the population at a level capable of producing optimal yield. To carry out this objective, it is necessary to accurately assess: (1) the magnitude of the removal (harvest) and its characteristics (distribution, age, sex, and size composition); and (2) the magnitude of the breeding population (spawning escapement) and its characteristics.

Resource management agencies maintain resource monitoring programs to collect these data for both the fisheries and contributing spawning populations in the Yakutat area. The objective of this report is to present the base-line population statistics for the 1984 inshore return of salmon to the Yakutat area. This report builds upon the data base established for the 1982 (McBride and Brogle 1983) and 1983 salmon returns (McBride 1984) to the Yakutat area.

METHODS

Abundance Data

The Alaska Department of Fish and Game (ADF&G), Division of Commercial Fisheries compiled all Alaskan commercial catch data used in this report. These data are based on preliminary computer tabulations of individual sales records (fish tickets)¹. The fish ticket tabulations used in this report were current through 29 November 1985 and are considered final tabulations. These data are reported by weekly periods (Appendix A). ADF&G, Division of Sport Fish compiled sport catch data used in this report (Mills 1985). Sport catch data by river system are only available for the Situk and Lost Rivers and all other freshwater catches are pooled. In addition, ADF&G staff conducted an informal creel census program to estimate the sport harvest of coho salmon from the Tsiu River (Woods 1984). Canadian Department of Fisheries and Oceans (CDFO) compiled catch data from the upper Alsek River system (Canada/U.S. Transboundary Technical Committee 1984).

Most of the escapement data presented in this report were obtained from aerial surveys (Woods 1984). These data are considered indices of relative abundance and do not represent a complete enumeration of season escapement. However, aerial survey data for some river systems and species may be adequate to obtain an approximation of the total spawning escapement. While these aerial counts are considered approximations of the actual spawning escapement, the precision of these estimates is not known and the inter-annual variability is probably large. Aerial survey data for sockeye salmon escapements in the East Alsek,

¹ Catches are reported on fish tickets as both total number and total weight of landing.

Italio, and Lost River systems; coho salmon escapements to the East Alsek (Doame River), Italio, Tsiu, and Kaliakh Rivers; and chum salmon escapements to the East Alsek River are presented as rough estimates of the total spawning escapement.

Salmon escapements to the Situk River and to the Klukshu River (Alsek River system) were counted through a weir.

Age, Sex, and Size Data

Fish were sampled for scales, sex, and length. Scales were collected on the left side of the fish approximately two rows above the lateral line and on the diagonal row downward from the posterior insertion of the dorsal fin (INPFC 1963). Scales were mounted on gum cards and impressions were made in cellulose acetate (Clutter and Whitesel 1956).

Examination of scales provided age information. Sex determination was based on examination of either morphometric characteristics or gonads. Fish length was measured from middle-of-eye to fork-of-tail except for the upper Alsek River samples which were measured from tip-of-snout to fork-of-tail.

Samples were collected from most sockeye, chinook, and coho salmon commercial catches. Chum salmon commercial catches from the East Alsek River were also sampled. Some samples were collected from the Tatshenshini River (Alsek River system) chinook and sockeye salmon sport catch, and the Tsiu River coho salmon sport catch.

Samples were collected from sockeye salmon spawning populations in the East Alsek, Klukshu, Akwe, Italio, Situk, and Lost River systems; and the East Alsek River chum salmon escapement. Live fish were sampled at the Situk and Klukshu River weirs. All other escapement samples were collected from spawned-out carcasses.

An age composition was computed for each sampled fishery. Sampling goals were to collect enough samples to estimate the proportion of each age in the population to within ± 5 percentage points nine out of 10 times (Bernard 1982). A systematic stratified sampling design (Cochran 1977) was used in sample collections from the major sockeye salmon fisheries (East Alsek, Alsek, Situk, and Yakutat Bay) while all other fisheries were sampled as single time strata.

An age composition was also computed for each sampled escapement. For most of the sampled escapements, samples were collected from carcasses over a short period of time and these data were pooled into a single statum. Samples collected from the Situk River sockeye salmon escapement were stratified over time as described above.

RESULTS AND DISCUSSION

Sockeye and coho salmon accounted for virtually all of the commercial and sport harvest of salmon in Yakutat area fisheries (Tables 1 and 2). Escape-

Table 1. Yakutat area commercial gillnet harvest of salmon by fishery, 1984.

Fishery	Chinook	Sockeye	Ooho	Pink	Chum
East Alsek	121	39,386	10,926	843	22,363
Alsek	60	14,326	7,868	24	1,608
Akwe	152	17,729	8,714	1,049	625
Italio	1	7,543	9,213	1,490	5,592
Dangerous	3	142	267		
Situk	512	7,401	47,524	12,514	844
Lost	22	726	10,717	1,864	96
Yakutat Bay	145	9,232	3,519	2,157	1,053
Manby Shore	45	6,093	17,601	2	8
Yahtse	1		1,526		
Tsiu			51,322		48
Kaliakh			13,081		
Total	1,062	102,578	182,278	19,943	32,237

Table 2. Yakutat area sport and subsistence harvest of salmon by fishery, 1984¹.

Fishery	Chinook	Sockeye	Coho	Pink	Chum
Saltwater	23	27	828	177	
Situk	151	346	2,195	177	5
Lost	5	27	1,110		
Alsek					
Subsistence	200	2,400			
Sport	500	300	100		
Total	700	2,700	100		
Other	5	9	2,542	118	41

¹ Sport harvest unless noted otherwise.

ment estimates by species and river system are presented in Table 3. Summaries of commercial catches, escapements, and age data by species are presented in Tables 4-13. Detailed catch, effort, age, and sex data are presented by fishery and species (Appendices B-L). Length and weight data for each species and fishery are presented in Appendices M and N, respectively.

Chinook Salmon

Yakutat area chinook salmon returns were variable. Strong returns were realized in the Situk and Akwe Rivers. The Alsek River return was poor as indicated by the small escapement past the Klukshu River weir (1,672 fish). The opening of the commercial fishery in the Alsek River was again delayed to minimize the catch of chinook salmon.

Age 1.3¹ fish were the most abundant in commercial fisheries and escapements. Zero-freshwater age fish² were abundant only in the Yakutat Bay catch (age 0.2 and 0.3 fish comprised 21% of the catch). The presence of 0-freshwater age chinook salmon in Alaskan catches indicates the presence of non-Alaskan fish (i.e., fish destined for British Columbia, Washington, Oregon, or California) (Van Alen and Wood 1983).

Sockeye Salmon

Sockeye salmon production was extremely poor in many Yakutat area fisheries. Inshore return to the Situk River (approximately 67,000 fish) was well below anticipated levels³ and resulted in a 4-week closure in the Situk, Lost, and Yakutat Bay fisheries.

The Manby Shore fishery remained open only in inshore waters⁴. Alsek River catches (14,326 fish) and escapements (Klukshu weir count of 12,727 fish) were also poor. Returns to the East Alsek, Akwe, and Italio Rivers were strong.

¹ European formula: The first numeral refers to the number of years of freshwater residence after emergence. The second number refers to the number of years of marine residence. Total age is the summation of these two numbers plus one.

² These fish presumably outmigrate as fry in the spring of emergence from the gravel as opposed to the more common life history of 1-freshwater age fish which rear in the freshwater environment for 1 year.

³ The predominant age of return for Situk River sockeye salmon is 5 years. The escapement to the Situk River in 1979 was approximately 130,000 fish. The inshore return estimate does not account for unquantified interception in the Yakutat Bay, Manby Shore, or Kayak Island fisheries.

⁴ Part of the Manby Shore fishery occurs in the marine waters of Yakutat Bay and harvests mixed stocks of salmon of which the Situk River is believed to be a major contributor. Commercial fishing also occurs in the mouths of Manby and Sudden Streams and it is believed that non-local contributions in these areas are minimal.

Table 3. Yakutat area escapement of salmon by river system, 1984¹.

Fishery	Chinook	Sockeye	Coho	Pink	Chum
East Alsek		29,000	8,000		15,000
Alsek-Tatshenshini R. ²	498	579	1,402		
-Klukshu ³	1,672	12,727	1,402		
-Lower Alsek ⁴		1,150	⁵		
Alwe	150	7,000	3,000		
Italio ⁶		8,000	2,500		
Dangerous ⁷					
Situk-Weir ³	2,265	58,088		113,161	
-Other ⁸		1,744	1,780		
Lost		2,100	6,780		
Yakutat Bay ⁹			510	16,750	
Manby Shore ¹⁰		500	3,750		
Yahtse			5,125		
Tsiu		1,200	30,000		
Kaliakh			3,500		

¹ Peak aerial surveys unless noted otherwise.

² Goat Creek, Stanley Creek, Blanchard River, Takhanne River, and Neskataheen Lake.

³ Weir.

⁴ Muddy Creek, Cabin Creek, and Basin Creek.

⁵ No data due to inclement weather.

⁶ Sockeye estimates for Italio Lake only. A large number of spawning sockeye salmon were observed in Italio River although no estimates were made.

⁷ Escapements not monitored.

⁸ Below weir, Old Situk, Sockeye Creek.

⁹ Humpy Creek, Canoe Pass #1 and #2, White Alice Creek, and Redfield Cove.

¹⁰ Malaspina #1 and #2, Esker Creek, Sudden Stream, Spoon River, Manby Pond, and Manby Stream.

Table 4. Yakutat area commercial gillnet harvest of chinook salmon by fishery and week, 1984.

Number of Fish by Fishery and Week												
Week	Date	East Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Yakutat Bay	Manby Shore	Yahtse	Tsiu Kaliakh
24	6/10-6/16								62			
25	6/17-6/23	7	43				252	10	40	35		
26	6/24-6/30	5	14	118			180	7	29	3		
27	7/01-7/07	2	3	27			78	4	4	7		
28	7/08-7/14	2		5								
29	7/15-7/21	3										
30	7/22-7/28	32		2	1							
31	7/29-8/04											
32	8/05-8/11	11					1		7			
33	8/12-8/18					3	1					
34	8/19-8/25							1	2			
35	8/26-9/01										1	
36	9/02-9/08	59										
37	9/09-9/15											
38	9/16-9/22								1			
39	9/23-9/29											
Total		121	60	152	1	3	512	22	145	45	1	0 0

Table 5. Age composition of chinook salmon from Yakutat area fisheries and escapements, 1984.

Fishery	Catch/ Escapement	Sample Size	Total Catch	Brood Year and Age Group								
				1981		1980		1979		1978		1977
				0.2	1.1	0.3	1.2	0.4	1.3	1.4	2.3	2.4
Alsek	Commercial	21	60		4.8		23.8		47.6	23.8		
	Sport	104	500		1.9		4.9		42.7	45.7	3.8	1.0
Situk	Commercial	53	512			1.9	7.5		84.9	5.7		
	Escapement	95	1,726		5.4	1.1	18.5	1.1	68.5	5.4		
Yakutat Bay	Commercial	14	145	7.1		14.3	14.3		42.9	14.3	7.1	

Table 6. Yakutat area commercial gillnet harvest of sockeye salmon by fishery and week, 1984.

Number of Fish by Fishery and Week												
Week	Date	East Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Yakutat Bay	Manby Shore	Yahtse	Tsiu Kaliakh
24	6/10-6/16								1,304			
25	6/17-6/23	132	1,924				1,982	40	3,313	2,216		
26	6/24-6/30	94	1,674	1,749			2,496	228	2,758	765		
27	7/01-7/07	1,085	2,009	1,804			1,599	77	491	1,078		
28	7/08-7/14	554	1,948	1,857	233					118		
29	7/15-7/21	4,413	1,264	2,532	633					571		
30	7/22-7/28	12,296	3,960	6,532	2,868					480		
31	7/29-8/04	4,171	1,329	1,936	2,310					98		
32	8/05-8/11	7,320	74	894	1,209		825	225	922			
33	8/12-8/18			215	217	142	398	119	148			
34	8/19-8/25	4,142	46	144	58		79	7	176			
35	8/26-9/01	4,280	49	66	11		17	26	1			
36	9/02-9/08	654	39		4		4	4	6	372		
37	9/09-9/15	197	10				1		112	395		
38	9/16-9/22	45							1			
39	9/23-9/29	3										
Total		39,386	14,326	17,729	7,543	142	7,401	726	9,232	6,093	0	0

Table 7. Age composition of sockeye salmon from Yakutat area commercial gillnet fisheries, 1984.

Fishery	Sample Size	Total Catch	1982	1981		Brood Year and Age Group						1978	
			0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3
East Alsek	1,355	37,862		23.8		62.6	1.7			12.4	0.1		
Alsek	1,892	14,251		0.5		7.5	3.7			86.2	0.1	0.4	1.7
Akwe	601	17,601		0.1		62.6	0.1		0.1	37.1			
Italio	533	8,294		0.2		57.6	0.2			41.4	0.1		0.5
Situk	769	7,400		0.1	0.2	19.4	12.7	0.3		53.4	3.1	0.1	10.7
Lost	83	726				14.4	6.0			70.0	1.2		8.4
Yakutat Bay	815	9,191				37.5	4.4		0.3	50.4	1.2	0.3	5.8
Manby Shore	462	6,014	0.1	0.1	0.1	7.0	9.1			74.6	1.5		7.3

Table 8. Age composition of sockeye salmon from Yakutat area escapements, 1984.

Escapement	Sample Size	Total Escapement	1982	1981		Brood Year and Age Group				1979		1978		1977
			0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.3
East Alsek	429	29,000 ²	0.9	8.4		86.7	0.2			3.5			0.2	
Alsek ¹	100	12,727 ³			1.0	1.0	1.0			94.0		3.0		
Akwe	400	7,000 ²	0.3	8.5		75.7	1.5			14.0				
Italio	310	8,000 ²		1.2	2.3	5.2	32.6			54.8	1.0		2.6	0.3
Situk	1,286	58,088 ³		0.1	0.1	3.2	28.6	0.4		48.8	5.4		13.0	0.3
Lost	321	2,100 ²	0.3	2.8	4.0	7.2	16.5	0.3		60.2	2.2		6.5	

¹ Klukshu River.

² Aerial survey peak estimate.

³ Weir.

Table 9. Yakutat area commercial gillnet harvest of coho salmon by fishery and week, 1984.

Number of Fish by Fishery and Week													
Week	Date	East Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Yakutat Bay	Manby Shore	Yahtse	Tsiu	Kaliakh
24	6/10-6/16								6				
25	6/17-6/23								8	3			
26	6/24-6/30						2		19	18			
27	7/01-7/07			1					19	3			
28	7/08-7/14												
29	7/15-7/21	83			1								
30	7/22-7/28	156	1	8									
31	7/29-8/04	105	12	5	18					1			
32	8/05-8/11	131	316	34	67		223	56	153				
33	8/12-8/18			32	41		1,408	129	40				
34	8/19-8/25	809	296	415	536		6,669	924	513	372	580	5,133	433
35	8/26-9/01	1,118	678	382	196		7,584	1,090	414	2,933	427	9,537	1,127
36	9/02-9/08	3,188	1,562	3,144	1,205		11,579	3,299	557	5,620		17,397	7,178
37	9/09-9/15	2,850	2,256	3809	1878		12,795	2,208	888	5,813		12,861	4,294
38	9/16-9/22	2,101	1,653	884	1,538	136	4,191	1,598	483	2,575	519	4,782	49
39	9/23-9/29	385	1,094		2,073		2,432	976	419			1,612	
40	9/30-10/6				1,660	131	641	437					
Total		10,926	7,868	8,714	9,213	267	47,524	10,717	3,519	17,338	1,526	51,322	13,081

Table 10. Age composition of coho salmon from Yakutat area commercial gillnet fisheries, 1984.

Fishery	Sample Size	Total Catch	Brood Year and Age Group					
			1981		1980			1979
			1.1	2.0	1.2	2.1	3.0	3.1
East Alsek	498	10,926	89.6			10.4		
Alsek	450	7,868	56.7			43.3		
Akwe	338	8,714	35.2			64.8		
Italio	544	9,213	55.1			44.5		0.4
Situk	502	47,524	68.7		0.2	31.1		
Lost	547	10,717	72.5		0.2	27.1		0.2
Yakutat Bay	70	3,519	37.1			62.9		
Manby Shore	326	17,601	27.3			70.6		2.1
Yahtse	95	1,526	20.0	5.3		48.4	2.1	24.2
Tsiu	415	51,322	73.1			26.7		0.2
Kaliakh	296	13,081	66.4			33.2		0.4

Table 11. Yakutat area commercial gillnet harvest of chum salmon by fishery and week, 1984.

Number of Fish by Fishery and Week												
Week	Date	East Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Yakutat Bay	Manby Shore	Yahtse	Tsiu Kaliakh
24	6/10-6/16								1			
25	6/17-6/23						1		593	4		
26	6/24-6/30								11	1		
27	7/01-7/07	1		1					1	3		
28	7/08-7/14											
29	7/15-7/21	13	5	4	15							
30	7/22-7/28	157	9	126	881							
31	7/29-8/04	421	35	114	1,585							
32	8/05-8/11	834	251	125	1,862		118	13	105			
33	8/12-8/18			26	527		135	41	62			
34	8/19-8/25	3,461	15	107	379		137	16	243			
35	8/26-9/01	5,413	92	52	123		81	7	5			
36	9/02-9/08	5,646	165	67	138		163	17	19			
37	9/09-9/15	4,503	85	2	79		188	2	10			
38	9/16-9/22	1,730	405	1	2		17		2			48
39	9/23-9/29	184	548		1		4		1			
40	9/30-10/6											
Total		22,363	1,610	625	5,592	0	844	96	1,053	8	0	48

Table 12. Age composition of chum salmon from the East Alsek River commercial gillnet fishery and escapement, 1984.

	Sample Size	Total	1981	1980	1979
			0.2	0.3	0.4
Catch	524	22,363	7.5	90.7	1.8
Escapement	536	15,000 ¹	14.6	84.3	1.1

¹ Aerial survey peak estimate.

Table 13. Yakutat area commercial gillnet harvest of pink salmon by fishery and week, 1984.

Number of Fish by Fishery and Week												
Week	Date	East Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Yakutat Bay	Manby Shore	Yahtse	Tsiu Kaliakh
24	6/10-6/16								1			
25	6/17-6/23								9	1		
26	6/24-6/30	1							6			
27	7/01-7/07	4	1	2					3			
28	7/08-7/14	6		11								
29	7/15-7/21	21		6								
30	7/22-7/28	133	3	147	389							
31	7/29-8/04	143	4	304	456							
32	8/05-8/11	273		179	394		2,925	595	787			
33	8/12-8/18			54	65		5,965	608	537			
34	8/19-8/25	262	14	131	128		2,473	624	660	1		
35	8/26-9/01		2	215	22		1,016	37	80			
36	9/02-9/08				36		135		45			
37	9/09-9/15								26			
38	9/16-9/22								3			
39	9/23-9/29											
Total		843	24	1,049	1,490	0	12,514	1,864	2,157	2	0	0 0

Age 1.3 fish cominated most Yakutat area fisheries and escapements. However, large numbers of 0-freshwater age fish were present in catches from the East Alsek, Akwe, Italio, and Yakutat Bay fisheries; and in escapements from the East Alsek, and Lost Rivers. The East Alsek River sockeye salmon return is unique in that virtually the entire return is composed of 0-freshwater age fish. Age 2.3 fish were most common in catches from the Situk, Lost, Yakutat Bay, and Manby Shore fisheries; and in the Situk River escapement.

Age composition data provides clues as to the stock structure of some of these fisheries. Zero-freshwater age fish were present in the catches of several in-river fisheries (the Italio and Situk Rivers); but were absent in the corresponding escapement samples. Likewise, age 1.3 fish were common in the Akwe River catch (37.1%) but much less common in the escapement (14%). These differences are probably attributable to other spawning populations in the river system not available to the escapement sampling effort. Although noted in past years, this difference in the Italio River catch and escapement samples was particularly evident. The Italio River catch had a large component of age 0.3 fish (57.6%) that was not evident in the Italio Lake escapement (5.2%). Woods (1984) observed a large population of spawning sockeye salmon in the Italio River during aerial surveys. The presence of age 2.3 fish in the Lost, Yakutat Bay, and Manby Shore catches indicates that Situk River stocks probably contributed to these fisheries.

Temporal trends in age composition were evident in the catches of several fisheries. In the East Alsek River fishery, the incidence of age 1.3 fish declined over time while the incidence of age 0.3 fish increased over time (Appendix Table B4). The fraction of age 1.3 fish ranged from 45% during the first period to 9% during the last period. Age 1.3 fish were not abundant in the East River escapement (3.5%). I hypothesize that the large fraction of age 1.3 fish in the early portions of the East Alsek River fishery are due to interceptions of Alsek River fish because: (1) the Alsek River is in the immediate geographic vicinity; (2) age 1.3 is the predominant age of return in the Alsek River, and (3) the Alsek River return exhibits an earlier run timing than does the East Alsek River return.

Temporal trends were also evident in the catch of 3-ocean fish in the Akwe River, Italio River, and Yakutat Bay fisheries (Appendix Tables D3, E3, and H3). The fraction of 0-freshwater fish declined over time in the Akwe River fishery; but increased over time in the Italio River fishery. As noted earlier, these differences in the Akwe and Italio River fisheries may reflect the contribution of different stocks (lake and river spawners) within each system. Consistent with results from previous years, the fraction of age 0.3 fish increased over time in the Yakutat Bay fishery and the fraction of age 1.3 fish correspondingly declined. I hypothesize that these differences reflect the contribution of Situk River stocks during the early portion of the fishery, and the increasing contribution of East Alsek River stocks during the later portions of the fishery.

Coho Salmon

Coho salmon returns were extremely strong and the total commercial catch (182,278) was the largest since 1962. Most of the catch occurred in the

Tsiu River (51,322) and Situk River (47,524) fisheries. Escapement levels appeared high and fishing time was generally extended to four days per week. Most catches were composed of approximately equal proportions of age 1.1 and 2.1 fish.

Chum Salmon

The East Alsek River is the only significant producer of chum salmon in the Yakutat area. The 1984 East Alsek River catch (22,363) was the largest since 1959. Age 0.3 fish were most abundant in both the catch (91%) and escapement (84%).

CONTRIBUTORS

This data report represents the efforts of a large number of people who carried out the collection, processing, and analysis of these data. Following are the names of the major contributors not specifically cited in the text: Mr. Robert Conrad (computer programming); Mr. Peter Etherton (Klukshu and Tatshenshini River age, sex, and size data); Mr. Kurt Iverson (collection of commercial catch, age, sex, and size data); Mr. Joe Muir (Alaskan commercial catch data); Ms. Renatte Riffe (collection of commercial and escapement age, sex, and size data); and Mr. Samuel Sharr (computer programming). Mr. Scott McPherson and Ms. Molly Sturdevandt aged the sockeye salmon scales, Mr. Al Tingley III aged the coho salmon scales, and Ms. Eileen Sturrock aged the chinook and chum salmon scales.

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APPENDICES

Appendix Table A1. Numbered calendar weeks (i.e., Stat Weeks) used to report commercial catches, 1984.

Week Number	From	To
1	Jan 1	Jan 7
2	Jan 8	Jan 14
3	Jan 15	Jan 21
4	Jan 22	Jan 28
5	Jan 29	Feb 4
6	Feb 5	Feb 11
7	Feb 12	Feb 18
8	Feb 19	Feb 25
9	Feb 26	Mar 3
10	Mar 4	Mar 10
11	Mar 11	Mar 17
12	Mar 18	Mar 24
13	Mar 25	Mar 31
14	Apr 1	Apr 7
15	Apr 8	Apr 14
16	Apr 15	Apr 21
17	Apr 22	Apr 28
18	Apr 29	May 5
19	May 6	May 12
20	May 13	May 19
21	May 20	May 26
22	May 27	Jun 2
23	Jun 3	Jun 9
24	Jun 10	Jun 16
25	Jun 17	Jun 23
26	Jun 24	Jun 30
27	Jul 1	Jul 7

Week Number	From	To
28	Jul 8	Jul 14
29	Jul 15	Jul 21
30	Jul 22	Jul 28
31	Jul 29	Aug 4
32	Aug 5	Aug 11
33	Aug 12	Aug 18
34	Aug 19	Aug 25
35	Aug 26	Sep 1
36	Sep 2	Sep 8
37	Sep 9	Sep 15
38	Sep 16	Sep 22
39	Sep 23	Sep 29
40	Sep 30	Oct 6
41	Oct 7	Oct 13
42	Oct 14	Oct 20
43	Oct 21	Oct 27
44	Oct 28	Nov 3
45	Nov 4	Nov 10
46	Nov 11	Nov 17
47	Nov 18	Nov 24
48	Nov 25	Dec 1
49	Dec 2	Dec 8
50	Dec 9	Dec 15
51	Dec 16	Dec 22
52	Dec 23	Dec 29
53	Dec 30	Dec 31

Appendix Table B1. East Alsek River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
25	6/17-6/23	48	7	7	132			
26	6/24-6/30	48	6	5	94		1	
27	7/01-7/07	48	13	2	1,085		4	1
28	7/08-7/14	24	10	2	554		6	
29	7/15-7/21	48	30	3	4,413	83	21	13
30	7/22-7/28	24	37	32	12,296	156	133	157
31	7/29-8/04	24	31		4,171	105	143	421
32	8/05-8/11	24	36	11	7,320	131	273	834
33	8/12-8/18	0	0					
34	8/19-8/25	12	20		4,142	809	262	3,461
35	8/26-9/01	72	12		4,280	1,118		5,413
36	9/02-9/08	72	15	59	654	3,188		5,646
37	9/09-9/15	72	15		197	2,850		4,503
38	9/16-9/22	72	13		45	2,101		1,730
39	9/23-9/29	72	6		3	385		184
TOTAL				121	39,386	10,926	843	22,363

Appendix Table B2. East Alsek River commercial gillnet catch and effort of sockeye salmon by subdistrict and week, 1984.

Week	Date	Hours	In-river ¹		Surf ²		Total	
			Boats	Catch	Boats	Catch	Boats	Catch
25	6/17-6/23	48	7	132			7	132
26	6/24-6/30	48	6	94			6	94
27	7/01-7/07	48	13	1,085			13	1,085
28	7/08-7/14	24	10	554			10	554
29	7/15-7/21	48	21	3,734	9	679	30	4,413
30	7/22-7/28	24	33	10,557	4	1,739	37	12,296
31	7/29-8/04	24	25	3,199	6	972	31	4,171
32	8/05-8/11	24	30	6,140	6	1,180	36	7,320
33	8/12-8/18	0					0	0
34	8/19-8/25	12	20	4,142			20	4,142
35	8/26-9/01	72	12	4,280			12	4,280
36	9/02-9/08	72	15	654			15	654
37	9/09-9/15	72	15	197			15	197
38	9/16-9/22	72	13	45			13	45
39	9/23-9/29	72	6	3			6	3
TOTAL				34,816		4,570		39,386

¹ Subdistrict 182-20.

² Subdistrict 182-21.

Appendix Table B3. East Alsek River escapement of salmon, 1984¹.

Area	Period Dates	Chinook	Sockeye	Coho	Pink	Chum
East Alsek	7/06		500			
	7/10		500			
	7/13		2,500			
	7/17		²			
	7/18		6,000			
	7/21		6,500			
	7/23		14,000			
	7/24		4,500			
	7/30		10,000			
	7/31		10,000			
	8/03		14,000			
	8/13		17,500			
	8/14		20,000			³ 2,000
	8/17		18,500			2,000
	8/21		22,000			2,500
	8/28		25,000	1,000		4,000
	9/23		29,000	8,000		15,000

¹ Aerial surveys.

² Turbid waters.

³ The 17,500 fish observed on this survey were mixed sockeye and chum salmon in the lower river.

Appendix Table B4. East Alsek River commercial gillnet catch of sockeye salmon, sex and age by fishing period, 1984.

		1981	Brood Year and Age Group					1978	Total
		0.2	1980	1.2	1.3	2.2	1.4	2.3	
Stratum Dates: 6/17-6/30									
Sample Dates: 6/17-6/23									
Sample Size: 98									
Female	Percent of Sample	0.0	31.7	1.0	28.6	0.0	1.0	0.0	62.3
	Number in Catch	0	71	2	65	0	2	0	140
Male	Percent of Sample	2.0	17.3	0.0	16.4	0.0	0.0	2.0	37.7
	Number in Catch	5	39	0	37	0	0	5	86
Total	Percent of Sample	2.0	49.0	1.0	45.0	0.0	1.0	2.0	100.0
	Number in Catch	5	112	2	100	0	2	5	226
	Standard Error	3	11	2	11	0	2	3	
Stratum Dates: 7/1-7/7									
Sample Dates: 7/1-7/7									
Sample Size: 168									
Female	Percent of Sample	0.6	43.4	0.0	19.9	0.0	0.0	0.0	63.9
	Number in Catch	7	470	0	216	0	0	0	693
Male	Percent of Sample	4.8	24.7	0.0	6.0	0.0	0.0	0.6	36.1
	Number in Catch	52	268	0	65	0	0	7	392
Total	Percent of Sample	5.4	68.1	0.0	25.9	0.0	0.0	0.6	100.0
	Number in Catch	59	738	0	281	0	0	7	1,085
	Standard Error	25	51	0	48	0	0	8	
Stratum Dates: 7/8-7/14									
Sample Dates: 7/8-7/14									
Sample Size: 228									
Female	Percent of Sample	1.8	39.5	0.9	15.8	0.0	0.0	0.0	58.0
	Number in Catch	10	219	5	88	0	0	0	322
Male	Percent of Sample	7.9	25.3	1.3	7.5	0.0	0.0	0.0	42.0
	Number in Catch	44	141	7	42	0	0	0	234
Total	Percent of Sample	9.7	64.8	2.2	23.3	0.0	0.0	0.0	100.0
	Number in Catch	53	360	12	129	0	0	0	554
	Standard Error	13	20	6	18	0	0	0	

-Continued-

Appendix Table B4. East Alsek River commercial gillnet catch of sockeye salmon, sex and age by fishing period, 1984 (continued).

Stratum Dates:		7/15-7/21							
Sample Dates:		7/15-7/21							
Sample Size:		178							
Female	Percent of Sample	1.7	30.3	0.0	9.6	0.0	0.0	0.0	41.6
	Number in Catch	75	1,337	0	424	0	0	0	1,836
Male	Percent of Sample	1.7	40.4	1.1	14.6	0.6	0.0	0.0	58.4
	Number in Catch	75	1,783	49	644	26	0	0	2,577
Total	Percent of Sample	3.4	70.7	1.1	24.2	0.6	0.0	0.0	100.0
	Number in Catch	150	3,120	49	1,068	26	0	0	4,413
	Standard Error	53	133	30	125	23	0	0	
Stratum Dates:		7/22-7/28							
Sample Dates:		7/22-7/28							
Sample Size:		174							
Female	Percent of Sample	5.2	37.6	0.6	12.7	0.0	0.0	0.0	56.1
	Number in Catch	639	4,623	74	1,562	0	0	0	6,898
Male	Percent of Sample	16.8	19.1	4.0	4.0	0.0	0.0	0.0	43.9
	Number in Catch	2,066	2,349	492	492	0	0	0	5,398
Total	Percent of Sample	22.0	56.7	4.6	16.7	0.0	0.0	0.0	100.0
	Number in Catch	2,705	6,972	566	2,053	0	0	0	12,296
	Standard Error	382	457	193	344	0	0	0	
Stratum Dates:		7/29-8/4							
Sample Dates:		7/29-8/4							
Sample Size:		165							
Female	Percent of Sample	8.5	29.1	0.0	2.4	0.0	0.0	0.0	40.0
	Number in Catch	355	1,213	0	100	0	0	0	1,668
Male	Percent of Sample	30.3	25.5	0.6	3.6	0.0	0.0	0.0	60.0
	Number in Catch	1,264	1,064	25	150	0	0	0	2,503
Total	Percent of Sample	38.8	54.6	0.6	6.0	0.0	0.0	0.0	100.0
	Number in Catch	1,619	2,277	25	250	0	0	0	4,171
	Standard Error	154	157	24	75	0	0	0	

-Continued-

Appendix Table B4. East Alsek River commercial gillnet catch of sockeye salmon, sex and age by fishing period, 1984 (continued).

Stratum Dates:		8/5-8/11							
Sample Dates:		8/5-8/11							
Sample Size:		175							
Female	Percent of Sample	6.3	37.1	0.0	0.6	0.0	0.0	0.0	44.0
	Number in Catch	461	2,716	0	44	0	0	0	3,221
Male	Percent of Sample	20.0	34.3	0.0	1.7	0.0	0.0	0.0	56.0
	Number in Catch	1,464	2,511	0	124	0	0	0	4,099
Total	Percent of Sample	26.3	71.4	0.0	2.3	0.0	0.0	0.0	100.0
	Number in Catch	1,925	5,227	0	168	0	0	0	7,320
	Standard Error	251	258	0	85	0	0	0	
Stratum Dates:		8/19-9/29							
Sample Dates:		8/19-8/25							
Sample Size:		169							
Female	Percent of Sample	4.1	26.0	0.0	2.4	0.0	0.0	0.0	32.5
	Number in Catch	382	2,423	0	224	0	0	0	3,029
Male	Percent of Sample	26.6	34.4	0.0	6.5	0.0	0.0	0.0	67.5
	Number in Catch	2,479	3,206	0	606	0	0	0	6,292
Total	Percent of Sample	30.7	60.4	0.0	8.9	0.0	0.0	0.0	100.0
	Number in Catch	2,862	5,630	0	830	0	0	0	9,321
	Standard Error	325	345	0	201	0	0	0	
Periods Combined:									
Sample Size:		1,355							
Female	Percent of Sample	4.9	33.2	0.2	6.9	0.0	.0	0.0	45.2
	Number in Catch	1,930	13,073	81	2,722	0	2	0	17,807
Male	Percent of Sample	18.9	29.4	1.5	5.5	0.1	0.0	.0	54.8
	Number in Catch	7,449	11,361	573	2,160	26	0	12	21,581
Total	Percent of Sample	23.8	62.6	1.7	12.4	0.1	.0	.0	100.0
	Number in Catch	9,378	24,436	654	4,879	26	2	12	39,386
	Standard Error	585	663	197	436	23	2	9	

Appendix Table B5. East Alsek River escapement of sockeye salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group						Total
		1982	1981	1980		1979	1978	
		0.1	0.2	0.3	1.2	1.3	2.3	

Periods Combined:								
Sample Size: 429								
Female	Percent of Sample	0.0	4.4	39.2	0.0	2.1	0.0	45.7
Male	Percent of Sample	0.9	4.0	47.6	0.2	1.4	0.2	54.3
Total	Percent of Sample	0.9	8.4	86.7	0.2	3.5	0.2	100.0
	Standard Error	0.21	1.80	2.69	0.05	0.79	0.05	

Appendix Table B6. East Alsek River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group		
		1981	1980	
		1.1	2.1	Total
Stratum Dates:		7/15-9/29		
Sample Dates:		9/9-9/15		
Sample Size:		498		
Female	Percent of Sample	44.0	5.6	49.6
	Number in Catch	4,807	612	5,419
Male	Percent of Sample	45.6	4.8	50.4
	Number in Catch	4,982	524	5,507
Total	Percent of Sample	89.6	10.4	100.0
	Number in Catch	9,790	1,136	10,926
	Standard Error	149	149	

Appendix Table B7. East Alsek River commercial gillnet catch of chum salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group			Total
		1981	1980	1979	
		0.2	0.3	0.4	
Stratum Dates:		7/1-8/11			
Sample Dates:		7/22-8/4			
Sample Size:		137			
Female	Percent of Sample	8.8	25.7	0.0	34.5
	Number in Catch	125	366	0	492
Male	Percent of Sample	5.9	57.4	2.2	65.5
	Number in Catch	84	819	31	934
Total	Percent of Sample	14.7	83.1	2.2	100.0
	Number in Catch	210	1,185	31	1,426
	Standard Error	43	46	18	
Stratum Dates:		8/12-9/29			
Sample Dates:		8/19-8/25			
Sample Size:		387			
Female	Percent of Sample	1.8	38.0	0.5	40.3
	Number in Catch	377	7,956	105	8,438
Male	Percent of Sample	5.2	53.2	1.3	59.7
	Number in Catch	1,089	11,138	272	12,499
Total	Percent of Sample	7.0	91.2	1.8	100.0
	Number in Catch	1,466	19,094	377	20,937
	Standard Error	272	302	141	
Periods Combined:					
Sample Size:		524			
Female	Percent of Sample	2.2	37.2	0.5	39.9
	Number in Catch	502	8,322	105	8,930
Male	Percent of Sample	5.2	53.5	1.4	60.1
	Number in Catch	1,173	11,957	303	13,433
Total	Percent of Sample	7.5	90.7	1.8	100.0
	Number in Catch	1,676	20,279	408	22,363
	Standard Error	275	305	143	

Appendix Table B8. East Alsek River escapement of chum salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group			
		1981	1980	1979	
Sex		0.2	0.3	0.4	Total
<hr/>					
Periods Combined:					
Sample Size:		536			
Female	Percent of Sample	8.4	51.3	0.9	60.6
Male	Percent of Sample	6.2	33.0	0.2	39.4
Total	Percent of Sample	14.6	84.3	1.1	100.0
	Standard Error	1.5	1.6	0.5	
<hr/>					

Appendix Table C1. Alsek River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
25	6/17-6/23	48	21	43	1,924			
26	6/24-6/30	48	20	14	1,674			
27	7/01-7/07	48	21	3	2,009		1	
28	7/08-7/14	48	21		1,948			
29	7/15-7/21	48	19		1,264			5
30	7/22-7/28	48	17		3,960	1	3	9
31	7/29-8/04	48	18		1,329	12	4	35
32	8/05-8/11	24	7		74	316		251
33	8/12-8/18	0	0					
34	8/19-8/25	72	8		46	296	14	15
35	8/26-9/01	72	11		49	678	2	92
36	9/02-9/08	72	10		39	1,562		165
37	9/09-9/15	72	10		10	2,256		85
38	9/16-9/22	72	10			1,653		405
39	9/23-9/29	72	9			1,094		548
TOTAL				60	14,326	7,868	24	1,610

Appendix Table C2. Alek River escapement of salmon, 1984¹.

Area	Period Dates	Chinook	Sockeye	Coho	Pink	Chum
Tatshenshini R. Drainage:						
Klukshu Weir	6/26-10/18	1,672	12,727	1,402		
Goat Creek	8/3	28				
Stanley Creek	8/3	8				
Blanchard River	8/3	304	205			
Takhanne River ⁴	8/3	158				
Neskataheen L. ⁵	8/3		374			
Lower Alek River:						
Muddy Creek	8/14		550	3		
Cabin Creek	8/14		2	3		
Basin Creek	8/14		600	3		

¹ Aerial surveys unless otherwise noted.

² Turbid water. No fish observed.

³ Aerial surveys to count coho salmon were attempted six times during the period 10/8-10/22. Severe winds and heavy flooding prevented any coho survey data.

⁴ Poor conditions.

⁵ Survey conducted early in migration.

Appendix Table C3. Klukshu River escapement of salmon by day through the Klukshu weir, 1984.

Date	Chinook	Sockeye	Oho	Date	Chinook	Sockeye	Oho	Date	Chinook	Sockeye	Oho	Date	Chinook	Sockeye	Oho
06-Jun	1			11-Jul	189	35		15-Aug	5	196		19-Sep		109	11
07-Jun	1			12-Jul	165	8		16-Aug	1	32		20-Sep		1	2
08-Jun	8			13-Jul	8	10		17-Aug		37		21-Sep			
09-Jun				14-Jul	8	105		18-Aug	2	177		22-Sep		3	1
10-Jun	2	54		15-Jul	1	12		19-Aug		15		23-Sep		44	8
11-Jun	1			16-Jul	25	91		20-Aug				24-Sep		4	3
12-Jun	2			17-Jul	69	139		21-Aug		3		25-Sep		5	1
13-Jun	3			18-Jul	95	13		22-Aug	2	299		26-Sep		4	1
14-Jun	2			19-Jul	15	6		23-Aug		14		27-Sep		32	4
15-Jun				20-Jul	20	8		24-Aug		27		28-Sep		36	6
16-Jun	3	25		21-Jul		10		25-Aug	5	398		29-Sep		203	285
17-Jun	1	11		22-Jul	12	133		26-Aug	2	882		30-Sep		4	9
18-Jun	16	51		23-Jul	112	260		27-Aug	2	175		01-Oct		13	67
19-Jun	1	1		24-Jul	36	113		28-Aug		130		02-Oct		8	144
20-Jun	16	1		25-Jul	117	100		29-Aug		510		03-Oct		1	3
21-Jun	5			26-Jul	22	8		30-Aug		150		04-Oct			4
22-Jun	6			27-Jul	8	1		31-Aug		312		05-Oct		10	4
23-Jun		1		28-Jul	14	38		01-Sep		151		06-Oct		7	4
24-Jun				29-Jul	11	56		02-Sep		103		07-Oct		876	515
25-Jun		4		30-Jul	12	66		03-Sep	1	35		08-Oct		200	289
26-Jun	3			31-Jul	10	111		04-Sep		1,337		09-Oct			7
27-Jun	11	6		01-Aug	10			05-Sep		748		10-Oct		1	4
28-Jun	9	3		02-Aug	20	9		06-Sep		110		11-Oct		1	1
29-Jun	10			03-Aug	10	236		07-Sep	1	194		12-Oct		1	
30-Jun	6	12		04-Aug	1	17		08-Sep		19		13-Oct		1	2
01-Jul	2			05-Aug	10	172		09-Sep		76		14-Oct			
02-Jul	2	44		06-Aug	10	116		10-Sep		460		15-Oct			
03-Jul	4	3		07-Aug		9		11-Sep		221		16-Oct			
04-Jul	30	15		08-Aug	9	144		12-Sep		369		17-Oct			
05-Jul	140	129		09-Aug				13-Sep		33		18-Oct			
06-Jul	137	74		10-Aug	1	3		14-Sep		563					
07-Jul	41	28		11-Aug	3	3		15-Sep	1	198		TOTAL	1,672	12,727	1,402
08-Jul	3	3		12-Aug				16-Sep		62					
09-Jul	48	103		13-Aug	4	27		17-Sep		174	4				
10-Jul	107	107		14-Aug	2	35		18-Sep		184	23				

Appendix Table C4. Alsek River commercial gillnet catch of chinook salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group				Total
		1981	1980	1979	1978	
		1.1	1.2	1.3	1.4	
Stratum Dates:		6/17-7/7				
Sample Dates:		6/17-7/7				
Sample Size:		21				
Female	Percent of Sample	0.0	0.0	33.3	0.0	33.3
	Number in Catch	0	0	20	0	20
Male	Percent of Sample	4.8	23.8	14.3	23.8	66.7
	Number in Catch	3	14	9	14	40
Total	Percent of Sample	4.8	23.8	47.6	23.8	100.0
	Number in Catch	3	14	29	14	60
	Standard Error	3	6	7	6	

Appendix Table C5. Tatshenshini River sport catch of chinook salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group						
		1981	1980	1979	1978		1977	
		1.1	1.2	1.3	1.4	2.3	2.4	Total
Stratum Dates:		6/23-8/19						
Sample Dates:		6/23-8/19						
Sample Size:		104						
Female	Percent of Sample	0.0	1.0	26.3	26.2	1.9	1.0	56.4
	Number in Catch	0	5	130	130	10	5	280
Male	Percent of Sample	1.9	3.9	16.5	19.4	1.9	0.0	43.6
	Number in Catch	10	20	83	97	10	0	220
Total	Percent of Sample	1.9	4.9	42.7	45.7	3.8	1.0	100.0
	Number in Catch	10	25	213	227	20	5	500
	Standard Error	7	10	24	24	9	5	

Appendix Table C6. Alesek River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group							Total
		1981	1980		1979		1978		
		0.2	0.3	1.2	1.3	2.2	1.4	2.3	
Stratum Dates: 6/17-6/23									
Sample Dates: 6/17-6/23									
Sample Size: 159									
Female	Percent of Sample	0.0	1.9	0.6	61.1	0.0	0.0	3.1	66.7
	Number in Catch	0	36	12	1,176	0	0	59	1,283
Male	Percent of Sample	0.0	3.1	1.3	27.0	0.0	0.0	1.9	33.3
	Number in Catch	0	60	25	519	0	0	37	641
Total	Percent of Sample	0.0	5.0	1.9	88.1	0.0	0.0	5.0	100.0
	Number in Catch	0	96	37	1,695	0	0	96	1,924
	Standard Error	0	33	21	49	0	0	33	
Stratum Dates: 6/24-6/30									
Sample Dates: 6/24-6/30									
Sample Size: 374									
Female	Percent of Sample	0.0	0.8	0.0	52.7	0.0	0.0	2.7	56.2
	Number in Catch	0	14	0	882	0	0	45	941
Male	Percent of Sample	0.0	1.1	2.1	38.7	0.0	0.0	1.9	43.8
	Number in Catch	0	18	35	648	0	0	32	733
Total	Percent of Sample	0.0	1.9	2.1	91.4	0.0	0.0	4.6	100.0
	Number in Catch	0	32	35	1,530	0	0	77	1,674
	Standard Error	0	18	19	37	0	0	28	
Stratum Dates: 7/1-7/7									
Sample Dates: 7/1-7/7									
Sample Size: 226									
Female	Percent of Sample	0.0	3.6	0.4	46.9	0.0	0.0	1.3	52.2
	Number in Catch	0	72	8	943	0	0	26	1,049
Male	Percent of Sample	0.0	1.3	2.7	43.8	0.0	0.0	0.0	47.8
	Number in Catch	0	26	54	880	0	0	0	960
Total	Percent of Sample	0.0	4.9	3.1	90.7	0.0	0.0	1.3	100.0
	Number in Catch	0	98	62	1,823	0	0	26	2,009
	Standard Error	0	22	18	30	0	0	12	

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Appendix Table C6. Alesek River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984 (continued).

Stratum Dates:		7/8-7/14							
Sample Dates:		7/8-7/14							
Sample Size:		354							
Female	Percent of Sample	0.0	4.0	1.1	53.1	0.0	0.0	0.3	58.5
	Number in Catch	0	78	21	1,034	0	0	6	1,139
Male	Percent of Sample	1.1	2.8	3.4	34.2	0.0	0.0	0.0	41.5
	Number in Catch	21	55	66	667	0	0	0	809
Total	Percent of Sample	1.1	6.8	4.5	87.3	0.0	0.0	0.3	100.0
	Number in Catch	21	132	88	1,701	0	0	6	1,948
	Standard Error	14	33	27	43	0	0	7	
Stratum Dates:		7/15-7/21							
Sample Dates:		7/15-7/21							
Sample Size:		154							
Female	Percent of Sample	0.6	15.0	0.6	40.4	0.0	0.0	0.6	57.2
	Number in Catch	8	189	8	510	0	0	8	723
Male	Percent of Sample	1.3	9.7	1.3	29.9	0.0	0.0	0.6	42.8
	Number in Catch	16	123	16	378	0	0	8	541
Total	Percent of Sample	1.9	24.7	1.9	70.3	0.0	0.0	1.2	100.0
	Number in Catch	24	312	24	888	0	0	16	1,264
	Standard Error	9	29	9	31	0	0	7	
Stratum Dates:		7/22-7/28							
Sample Dates:		7/22-7/28							
Sample Size:		272							
Female	Percent of Sample	0.0	3.3	1.4	42.1	0.0	0.7	0.0	47.5
	Number in Catch	0	131	55	1,667	0	28	0	1,881
Male	Percent of Sample	0.4	3.7	3.0	44.3	0.0	0.7	0.4	52.5
	Number in Catch	16	147	119	1,754	0	28	16	2,079
Total	Percent of Sample	0.4	7.0	4.4	86.4	0.0	1.4	0.4	100.0
	Number in Catch	16	277	174	3,421	0	55	16	3,960
	Standard Error	20	81	65	109	0	37	20	

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Appendix Table C6. Alesek River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984 (continued).

Stratum Dates:		7/29-8/4							
Sample Dates:		7/29-8/4							
Sample Size:		269							
Female	Percent of Sample	0.0	6.3	2.2	58.3	0.0	0.0	0.0	66.8
	Number in Catch	0	84	29	775	0	0	0	888
Male	Percent of Sample	0.4	1.5	5.2	25.7	0.4	0.0	0.0	33.2
	Number in Catch	5	20	69	342	5	0	0	441
Total	Percent of Sample	0.4	7.8	7.4	84.0	0.4	0.0	0.0	100.0
	Number in Catch	5	104	98	1,117	5	0	0	1,329
	Standard Error	5	22	21	30	5	0	0	
Stratum Dates:		8/5-9/29							
Sample Dates:		8/5-8/25							
Sample Size:		84							
Female	Percent of Sample	0.0	7.3	1.2	42.7	1.2	0.0	0.0	52.4
	Number in Catch	0	16	3	92	3	0	0	114
Male	Percent of Sample	0.0	4.9	3.7	35.4	1.2	0.0	2.4	47.6
	Number in Catch	0	11	8	77	3	0	5	104
Total	Percent of Sample	0.0	12.2	4.9	78.1	2.4	0.0	2.4	100.0
	Number in Catch	0	27	11	169	6	0	5	218
	Standard Error	0	4	3	5	2	0	2	
Periods Combined:		1,892							
Sample Size:		1,892							
Female	Percent of Sample	0.1	4.3	1.0	49.4	.0	0.2	1.0	56.0
	Number in Catch	8	620	136	7,079	3	28	144	8,018
Male	Percent of Sample	0.4	3.2	2.7	36.8	0.1	0.2	0.7	44.0
	Number in Catch	58	460	392	5,265	8	28	98	6,308
Total	Percent of Sample	0.5	7.5	3.7	86.2	0.1	0.4	1.7	100.0
	Number in Catch	66	1,078	529	12,344	11	55	242	14,326
	Standard Error	26	105	82	143	5	37	50	

Appendix Table C7. Klukshu River subsistence catch of sockeye salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group			Total
		1980	1979	1978	
		1.2	1.3	1.4	
Stratum Dates:	7/24-8/25				
Sample Dates:	7/24-8/25				
Sample Size:	41				
Female	Percent of Sample	4.9	53.7	0.0	58.6
	Number in Catch	117	1,289	0	1,406
Male	Percent of Sample	2.4	36.6	2.4	41.4
	Number in Catch	58	878	58	994
Total	Percent of Sample	7.3	90.3	2.4	100.0
	Number in Catch	175	2,167	58	2,400
	Standard Error	98	111	57	

Appendix Table C8. Tatshenshini River sport catch of sockeye salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group					
		1980		1979	1978		
		0.3	1.2	1.3	1.4	2.3	Total
Stratum Dates:		8/6-9/20					
Sample Dates:		8/6-9/20					
Sample Size:		155					
Female	Percent of Sample	0.7	0.0	41.8	0.0	0.7	43.2
	Number in Catch	2	0	125	0	2	129
Male	Percent of Sample	0.0	2.0	52.8	0.7	1.3	56.8
	Number in Catch	0	6	159	2	4	171
Total	Percent of Sample	0.7	2.0	94.6	0.7	2.0	100.0
	Number in Catch	2	6	284	2	6	300
	Standard Error	2	3	5	2	3	

Appendix Table C9. Klukshu River escapement of sockeye salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group					
		1981	1980		1979	1978	
		1.1	0.3	1.2	1.3	1.4	Total
Stratum Dates:		6/10-10/18					
Sample Dates:		6/26-10/13					
Sample Size:		100					
Female	Percent of Sample	0.0	1.0	0.0	55.0	1.0	57.0
	Number in Catch	0	127	0	7,000	127	7,254
Male	Percent of Sample	1.0	0.0	1.0	39.0	2.0	43.0
	Number in Catch	127	0	127	4,964	255	5,473
Total	Percent of Sample	1.0	1.0	1.0	94.0	3.0	100.0
	Number in Catch	127	127	127	11,964	382	12,727
	Standard Error	127	127	127	302	217	

Appendix Table C10. Alsek River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group		
		1981	1980	
		1.1	2.1	Total
Stratum Dates:		7/22-9/29		
Sample Dates:		9/16-9/22		
Sample Size:		450		
Female	Percent of Sample	25.3	20.4	45.7
	Number in Catch	1,991	1,605	3,596
Male	Percent of Sample	31.4	22.9	54.3
	Number in Catch	2,470	1,802	4,272
Total	Percent of Sample	56.7	43.3	100.0
	Number in Catch	4,461	3,407	7,868
	Standard Error	184	184	

Appendix Table C11. Klukshu River escapement of coho salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group		
		1980	1979	
		2.1	3.1	Total
Stratum Dates:		9/17-10/18		
Sample Dates:		9/19-10/8		
Sample Size:		21		
Female	Percent of Sample	14.3	23.8	38.1
	Number in Catch	200	334	534
Male	Percent of Sample	23.8	38.1	61.9
	Number in Catch	334	534	868
Total	Percent of Sample	38.1	61.9	100.0
	Number in Catch	534	868	1,402
	Standard Error	149	149	

Appendix Table D1. Akwe River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
26	6/24-6/30	24	5	118	1,749			
27	7/01-7/07	24	6	27	1,804	1	2	1
28	7/08-7/14	24	6	5	1,857		11	
29	7/15-7/21	36	8		2,532		6	4
30	7/22-7/28	36	7	2	6,532	8	147	126
31	7/29-8/04	24	7		1,936	5	304	114
32	8/05-8/11	24	4		894	34	179	125
33	8/12-8/18	48	3		215	32	54	26
34	8/19-8/25	72	3		144	415	131	107
35	8/26-9/01	72	2		66	382	215	52
36	9/02-9/08	72	6			3,144		67
37	9/09-9/15	32	5			3,809		2
38	9/16-9/22	72	5			884		1
TOTAL				152	17,729	8,714	1,049	625

Appendix Table D2. Akwe River escapement of salmon, 1984¹.

Area	Period Dates	Chinook	Sockeye	Coho	Pink	Chum
Akwe River	6/21		1,400			
	7/06		750			
	7/13		2			
	7/21		2			
	7/30		2,500			
	7/31		4,000			
	8/03		7,000			
	8/14	150	3,000			
	9/18			400		
	9/23			2		
	9/27			2,500		
	10/16			3000		

¹ Aerial surveys.

² Turbid water.

Appendix Table D3. Akwe River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984.

		1981	Brood Year and Age Group				
			1980	1979			
		0.2	0.3	1.2	0.4	1.3	Total
Stratum Dates:		6/24-7/14					
Sample Dates:		7/8-7/14					
Sample Size:		270					
Female	Percent of Sample	0.0	46.6	0.0	0.0	7.8	54.4
	Number in Catch	0	2,521	0	0	422	2,943
Male	Percent of Sample	0.4	37.4	0.4	0.0	7.4	45.6
	Number in Catch	22	2,023	22	0	400	2,467
Total	Percent of Sample	0.4	84.0	0.4	0.0	15.2	100.0
	Number in Catch	22	4,544	22	0	822	5,410
	Standard Error	21	121	21	0	118	
Stratum Dates:		7/15-7/21					
Sample Dates:		7/15-7/21					
Sample Size:		196					
Female	Percent of Sample	0.0	37.8	0.0	0.5	15.8	54.1
	Number in Catch	0	957	0	13	400	1,370
Male	Percent of Sample	0.0	39.3	0.0	0.0	6.6	45.9
	Number in Catch	0	995	0	0	167	1,162
Total	Percent of Sample	0.0	77.1	0.0	0.5	22.4	100.0
	Number in Catch	0	1,952	0	13	567	2,532
	Standard Error	0	76	0	13	75	
Stratum Dates:		7/22-9/1					
Sample Dates:		7/22-7/28					
Sample Size:		135					
Female	Percent of Sample	0.0	27.7	0.0	0.0	31.0	58.7
	Number in Catch	0	2,711	0	0	3,034	5,745
Male	Percent of Sample	0.0	19.4	0.0	0.0	21.9	41.3
	Number in Catch	0	1,899	0	0	2,143	4,042
Total	Percent of Sample	0.0	48.1	0.0	0.0	51.9	100.0
	Number in Catch	0	4,610	0	0	5,177	9,787
	Standard Error	0	421	0	0	421	

-Continued-

Appendix Table D3. Akwe River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984 (continued).

Periods Combined:							
Sample Size:		601					
Female	Percent of Sample	0.0	34.9	0.0	0.1	21.8	56.7
	Number in Catch	0	6,189	0	13	3,856	10,058
Male	Percent of Sample	0.1	27.7	0.1	0.0	15.3	43.3
	Number in Catch	22	4,917	22	0	2,710	7,671
Total	Percent of Sample	0.1	62.6	0.1	0.1	37.1	100.0
	Number in Catch	22	11,106	22	13	6,566	17,729
	Standard Error	21	444	21	13	444	

Appendix Table D4. Akwe River escapement of sockeye salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group					
		1982	1981	1980	1979		
		0.1	0.2	0.3	1.2	1.3	Total

Periods Combined:							
Sample Size: 400							
Female	Percent of Sample	0.0	8.2	50.7	1.3	8.2	68.4
Male	Percent of Sample	0.3	0.3	25.0	0.2	5.8	31.6
Total	Percent of Sample	0.3	8.5	75.7	1.5	14.0	100.0
	Standard Error	0.3	1.4	2.1	0.6	1.7	

Appendix Table D5. Akwe River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group		
		1981	1980	
		1.1	2.1	Total
Stratum Dates:	7/1-9/22			
Sample Dates:	9/9-9/22			
Sample Size:	338			
Female	Percent of Sample	18.9	31.1	50.0
	Number in Catch	1,647	2,710	4,357
Male	Percent of Sample	16.3	33.7	50.0
	Number in Catch	1,420	2,937	4,357
Total	Percent of Sample	35.2	64.8	100.0
	Number in Catch	3,067	5,647	8,714
	Standard Error	226	226	

Appendix Table E1. Italo River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
28	7/08-7/14	36	3		233			
29	7/15-7/21	36	4		633	1		15
30	7/22-7/28	60	4	1	2,868		389	881
31	7/29-8/04	60	7		2,310	18	456	1,585
32	8/05-8/11	72	4		1,209	67	394	1,862
33	8/12-8/18	72	2		217	41	65	527
34	8/19-8/25	72	2		58	536	128	379
35	8/26-9/01	72	2		11	196	22	123
36	9/02-9/08	72	3		4	1,205	36	138
37	9/09-9/15	32	4			1,878		79
38	9/16-9/22	96	7			1,538		2
39	9/23-9/29	96	6			2,073		1
40	9/30-10/6	72	5			1,660		
TOTAL				1	7,543	9,213	1,490	5,592

Appendix Table E2. Italio River escapement of salmon, 1984¹.

Area	Period	Chinook	Sockeye	Coho	Pink	Chum
	Dates					
Italio Lake ³	6/21		300			
	7/06		3,500			
	7/13		4,500			
	7/21		2,000 ²			
	7/23		8,000			
	7/30		2			
	8/03		6,000			
	8/14		5,000			
	9/23		500	1,900		
	10/4			2,500		
Old Italio	9/23			1,700		
	10/4			750		

¹ Aerial surveys.

² Turbid water.

³ Spawning sockeye salmon were observed by aerial survey below the junction of Italio Lake stream and Old Italio. Although no estimates of the number of spawning fish were made, the observer felt that a large number of fish were present.

Appendix Table E3. Italio River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984.

		1981	Brood Year and Age Group					
			1980	1979		1978		
		0.2	0.3	1.2	1.3	2.2	2.3	Total
Stratum Dates: 7/14-7/21								
Sample Dates: 7/15-7/21								
Sample Size: 82								
Female	Percent of Sample	0.0	36.6	0.0	32.9	0.0	0.0	69.5
	Number in Catch	0	317	0	285	0	0	602
Male	Percent of Sample	0.0	12.2	0.0	18.3	0.0	0.0	30.5
	Number in Catch	0	106	0	158	0	0	264
Total	Percent of Sample	0.0	48.8	0.0	51.2	0.0	0.0	100.0
	Number in Catch	0	423	0	443	0	0	866
	Standard Error	0	48	0	48	0	0	
Stratum Dates: 7/22-7/28								
Sample Dates: 7/22-7/28								
Sample Size: 141								
Female	Percent of Sample	0.0	34.7	0.0	20.6	0.0	0.0	55.3
	Number in Catch	0	995	0	591	0	0	1,586
Male	Percent of Sample	0.0	22.7	0.0	22.0	0.0	0.0	44.7
	Number in Catch	0	651	0	631	0	0	1,282
Total	Percent of Sample	0.0	57.4	0.0	42.6	0.0	0.0	100.0
	Number in Catch	0	1,646	0	1,222	0	0	2,868
	Standard Error	0	119	0	119	0	0	
Stratum Dates: 7/29-8/4								
Sample Dates: 7/29-8/4								
Sample Size: 258								
Female	Percent of Sample	0.0	24.0	0.0	20.2	0.4	0.4	45.0
	Number in Catch	0	554	0	467	9	9	1,039
Male	Percent of Sample	0.8	29.4	0.8	24.0	0.0	0.0	55.0
	Number in Catch	18	681	18	554	0	0	1,271
Total	Percent of Sample	0.8	53.4	0.8	44.2	0.4	0.4	100.0
	Number in Catch	18	1,235	18	1,021	9	9	2,310
	Standard Error	13	72	13	71	9	9	

-Continued-

Appendix Table E3. Italo River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984 (continued).

Stratum Dates:		8/5-9/8						
Sample Dates:		8/5-8/11						
Sample Size:		52						
Female	Percent of Sample	0.0	38.5	0.0	17.3	0.0	0.0	55.8
	Number in Catch	0	577	0	259	0	0	836
Male	Percent of Sample	0.0	30.8	0.0	11.5	0.0	1.9	44.2
	Number in Catch	0	462	0	172	0	28	663
Total	Percent of Sample	0.0	69.3	0.0	28.8	0.0	1.9	100.0
	Number in Catch	0	1,039	0	432	0	28	1,499
	Standard Error	0	96	0	94	0	28	
Periods Combined:		533						
Sample Size:		533						
Female	Percent of Sample	0.0	32.4	0.0	21.2	0.1	0.1	53.9
	Number in Catch	0	2,443	0	1,602	9	9	4,063
Male	Percent of Sample	0.2	25.2	0.2	20.1	0.0	0.4	46.1
	Number in Catch	18	1,900	18	1,515	0	28	3,480
Total	Percent of Sample	0.2	57.6	0.2	41.3	0.1	0.5	100.0
	Number in Catch	18	4,343	18	3,117	9	37	7,543
	Standard Error	13	198	13	197	9	30	

Appendix Table E4. Italio River escapement of sockeye salmon, sex and age class by sample period, 1984.

		Brood Year and Age Class								
		1981		1980		1979		1978	1977	
		0.2	1.1	0.3	1.2	1.3	2.2	2.3	3.3	Total
Periods Combined:										
Sample Size: 310										
Female	Percent of Sample	0.6	0.0	4.2	15.2	33.5	1.0	1.3	0.0	55.8
Male	Percent of Sample	0.6	2.3	1.0	17.4	21.3	0.0	1.3	0.3	44.2
Total	Percent of Sample	1.2	2.3	5.2	32.6	54.8	1.0	2.6	0.3	100.0
	Standard Error	0.6	0.9	1.3	2.7	2.8	0.6	0.9	0.3	

Appendix Table E5. Italo River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group			Total
		1981	1980	1979	
		1.1	2.1	3.1	
Stratum Dates:	7/15-10/6				
Sample Dates:	8/19-9/22				
Sample Size:	544				
Female	Percent of Sample	25.0	22.1	0.4	47.5
	Number in Catch	2,303	2,036	37	4,376
Male	Percent of Sample	30.1	22.4	0.0	52.5
	Number in Catch	2,773	2,064	0	4,837
Total	Percent of Sample	55.1	44.5	0.4	100.0
	Number in Catch	5,076	4,100	37	9,213
	Standard Error	196	196	25	

Appendix Table F1. Situk River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984¹.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
25	6/17-6/23	36	26	252	1,982			1
26	6/24-6/30	36	27	180	2,496	2		
27	7/01-7/07	12	22	78	1,599			
28	7/08-7/14	0	0					
29	7/15-7/21	0	0					
30	7/22-7/28	0	0					
31	7/29-8/04	0	0					
32	8/05-8/11	72	12	1	825	223	2,925	118
33	8/12-8/18	72	29	1	398	1,408	5,965	135
34	8/19-8/25	72	31		79	6,669	2,473	137
35	8/26-9/01	72	35		17	7,584	1,016	81
36	9/02-9/08	96	42		4	11,579	135	163
37	9/09-9/15	96	40		1	12,795		188
38	9/16-9/22	96	36			4,191		17
39	9/23-9/29	96	26			2,432		4
40	9/30-10/6	72	11			641		
TOTAL				512	7,401	47,524	12,514	844

¹ One test fish landing of 68 pink salmon was made during week 31. These fish were added to the catches made during week 32.

Appendix Table F2. Situk River escapement of salmon, 1984¹.

Area	Period Dates	Chinook	Sockeye	Coho	Pink	Chum
Weir	6/6-8/18	2,265	58,088		113,161	
Main Situk	9/11			12,000		
(below weir)	10/14			²		
Old Situk	10/12			1,780		
Sockeye Creek	7/29		1,744			

¹ Boat or foot surveys unless otherwise noted.

² Turbid water.

Appendix Table F3. Situk River escapement of salmon by day through the Situk weir, 1984.

Chinook						Chinook							
Date	1	2	Total	Sockeye	Pink	Chum	Date	1	2	Total	Sockeye	Pink	Chum
06-Jun			0				13-Jul	15		15	323		
07-Jun			0				14-Jul	12	1	13	894	11	
08-Jun	2		2				15-Jul	1	1	2	90		
09-Jun			0				16-Jul	6	2	8	37		
10-Jun			0				17-Jul	17	3	20	3,705	14	
11-Jun			0				18-Jul	13	1	14	53		
12-Jun			0				19-Jul	2	3	5	1,248	3	
13-Jun			0				20-Jul	32	2	34	973	33	
14-Jun			0				21-Jul	18	7	25	1,368	11	
15-Jun			0				22-Jul	5		5	82		
16-Jun			0				23-Jul	11	6	17	1,329	70	
17-Jun			0				24-Jul	55	6	61	2,772	178	
18-Jun			0				25-Jul	50	26	76	1,603	246	
19-Jun			0				26-Jul	21	2	23	898	754	
20-Jun			0	57			27-Jul	18	18	36	3,344	1,138	
21-Jun	5		5	373			28-Jul	95	18	113	1,649	175	
22-Jun			0	770			29-Jul	51	25	76	2,099	3,216	
23-Jun	2	2	4	307			30-Jul	52	18	70	301	424	
24-Jun	1		1	56			31-Jul	29	27	56	985	281	
25-Jun			0				01-Aug	126	5	131	1,857	1,417	
26-Jun			0	27			02-Aug	9	14	23	478	236	
27-Jun	11	1	12	2,011			03-Aug	34	17	51	455	270	
28-Jun	1		1	1,121			04-Aug	114	69	183	2,843	15,006	3
29-Jun	21	2	23	1,337			05-Aug	37	26	63	1,394	12,243	
30-Jun	3		3	535			06-Aug	74	39	113	682	7,677	
01-Jul	1		1	46			07-Aug	20	14	34	449	2,975	
02-Jul			0				08-Aug	23	11	34	259	415	
03-Jul	22	3	25	1,041	1		09-Aug	155	38	193	1,293	10,089	
04-Jul	29	1	30	1,598			10-Aug	20	17	37	1,483	25,247	
05-Jul	7		7	307			11-Aug	156	8	164	905	19,308	
06-Jul	6	3	9	1,298	1		12-Aug	9	1	10	203	4,431	
07-Jul	11	2	13	1,249	9		13-Aug	4	5	9	86	637	
08-Jul	3		3	54			14-Aug		4	4	134	777	
09-Jul	254	17	271	6,921	11		15-Aug		6	6	99	419	1
10-Jul	21	1	22	532			16-Aug	2	2	4	233	2,548	1
11-Jul	33	1	34	1,594	1		17-Aug	3		3	187	1,889	
12-Jul	1		1	23			18-Aug	3		3	38	1,000	
TOTAL								1,726	475	2,201	58,088	113,161	5

¹ Larger chinook salmon.

² Smaller, presumably male, chinook salmon (approx. 4-12 lbs).

Appendix Table F4. Situk River commercial gillnet catch of chinook salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group				
		1980		1979	1978	
		0.3	1.2	1.3	1.4	Total
Stratum Dates:		6/17-8/18				
Sample Dates:		6/24-6/30				
Sample Size:		53				
Female	Percent of Sample	2.0	2.0	48.0	0.0	52.0
	Number in Catch	10	10	246	0	266
Male	Percent of Sample	0.0	6.0	36.0	6.0	48.0
	Number in Catch	0	31	184	31	246
Total	Percent of Sample	1.9	7.5	84.9	5.7	100.0
	Number in Catch	10	38	435	29	512
	Standard Error	10	19	25	16	

Appendix Table F5. Situk River escapement of chinook salmon, sex and age class by sampling period, 1984.

		Brood Year and Age Group						
		1981	1980		1979		1978	
		1.1	0.3	1.2	0.4	1.3	1.4	Total
Stratum Dates:		6/8-8/18						
Sample Dates:		6/8-8/18						
Sample Size:		95						
Female	Percent of Sample	0.0	0.0	7.6	0.0	37.0	5.4	50.0
	Number in Catch	0	0	131	0	639	93	863
Male	Percent of Sample	5.4	1.1	10.9	1.1	31.5	0.0	50.0
	Number in Catch	93	19	188	19	544	0	863
Total	Percent of Sample	5.4	1.1	18.5	1.1	68.5	5.4	100.0
	Number in Catch	93	19	319	19	1,183	93	1,726
	Standard Error	40	18	69	18	82	40	

Appendix Table F6. Situk River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group									
		1981		1980			1979		1978		
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	Total
Stratum Dates:		6/17-6/23									
Sample Dates:		6/17-6/23									
Sample Size:		248									
Female	Percent of Sample	0.0	0.0	10.1	2.0	0.0	37.5	0.4	0.4	8.9	59.3
	Number in Catch	0	0	200	40	0	744	8	8	176	1,176
Male	Percent of Sample	0.4	0.0	3.6	9.7	0.0	21.8	1.2	0.0	4.0	40.7
	Number in Catch	8	0	71	192	0	432	24	0	79	806
Total	Percent of Sample	0.4	0.0	13.7	11.7	0.0	59.3	1.6	0.4	12.9	100.0
	Number in Catch	8	0	271	232	0	1,176	32	8	255	1,982
	Standard Error	8	0	43	40	0	62	16	8	42	
Stratum Dates:		6/24-6/30									
Sample Dates:		6/24-6/30									
Sample Size:		252									
Female	Percent of Sample	0.0	0.0	17.1	0.8	0.0	36.5	0.0	0.0	3.6	58.0
	Number in Catch	0	0	427	20	0	909	0	0	90	1,446
Male	Percent of Sample	0.0	0.4	8.3	5.2	0.0	19.8	2.8	0.0	5.6	42.1
	Number in Catch	0	10	207	130	0	493	70	0	140	1,050
Total	Percent of Sample	0.0	0.4	25.4	6.0	0.0	56.3	2.8	0.0	9.1	100.0
	Number in Catch	0	10	634	150	0	1,402	70	0	230	2,496
	Standard Error	0	10	68	37	0	78	26	0	45	

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Appendix Table F6. Situk River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984 (continued).

Stratum Dates:		7/1-7/7									
Sample Dates:		7/1-7/7									
Sample Size:		225									
Female	Percent of Sample	0.0	0.0	8.9	1.8	0.0	36.2	1.3	0.0	5.8	54.0
	Number in Catch	0	0	142	29	0	579	21	0	93	863
Male	Percent of Sample	0.0	0.4	5.4	17.9	1.3	16.1	0.9	0.0	4.0	46.0
	Number in Catch	0	6	86	286	21	257	14	0	64	736
Total	Percent of Sample	0.0	0.4	14.2	19.6	1.3	52.4	2.2	0.0	9.8	99.9
	Number in Catch	0	6	229	315	21	836	35	0	157	1,599
	Standard Error	0	7	37	42	12	53	16	0	32	
Stratum Dates:		8/5-9/22									
Sample Dates:		8/5-8/11									
Sample Size:		44									
Female	Percent of Sample	0.0	0.0	13.6	2.3	0.0	25.1	2.3	0.0	6.8	50.1
	Number in Catch	0	0	180	30	0	332	30	0	90	663
Male	Percent of Sample	0.0	0.0	9.1	15.9	0.0	15.9	4.5	0.0	4.5	49.9
	Number in Catch	0	0	120	211	0	211	60	0	60	661
Total	Percent of Sample	0.0	0.0	22.7	18.2	0.0	40.9	6.8	0.0	11.4	100.0
	Number in Catch	0	0	301	241	0	543	90	0	150	1,324
	Standard Error	0	0	84	77	0	98	50	0	63	

-Continued-

Appendix Table F6. Situk River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984 (continued).

Periods Combined:											
Sample Size:		769									
Female	Percent of Sample	0.0	0.0	12.8	1.6	0.0	34.6	0.8	0.1	6.1	56.1
	Number in Catch	0	0	950	120	0	2,564	60	8	448	4,150
Male	Percent of Sample	0.1	0.2	6.6	11.1	0.3	18.8	2.3	0.0	4.6	43.9
	Number in Catch	8	16	485	818	21	1,392	168	0	343	3,251
Total	Percent of Sample	0.1	0.2	19.4	12.7	0.3	53.5	3.1	0.1	10.7	100.0
	Number in Catch	8	16	1,435	938	21	3,956	228	8	791	7,401
	Standard Error	8	12	122	104	12	150	61	8	94	

Appendix Table F7. Situk River escapement of sockeye salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group										Total	
		1981		1980			1979		1978		1977		
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.3		
Stratum Dates: 6/20/84 - 7/9/84													
Sample Dates: 6/30/84 - 7/9/84													
Sample Size: 240													
Female	Percent of Sample	0.0	0.0	0.0	5.3	0.0	29.1	1.7	0.0	6.7	0.4	43.2	
	Number in Catch	0	0	0	975	0	5,560	325	0	1,299	76	8,235	
Male	Percent of Sample	0.0	0.0	0.8	23.0	0.4	20.1	2.5	0.0	10.0	0.0	56.8	
	Number in Catch	0	0	153	4,357	76	3,879	478	0	1,930	0	10,873	
Total	Percent of Sample	0.0	0.0	0.8	28.3	0.4	49.2	4.2	0.0	16.7	0.4	100.0	
	Number in Catch	0	0	153	5,408	76	9,401	803	0	3,191	76	19,108	
	Standard Error	0	0	110	556	78	617	247	0	460	78		
Stratum Dates: 7/10/84 - 7/22/84													
Sample Dates: 7/12/84 - 7/22/84													
Sample Size: 421													
Female	Percent of Sample	0.0	0.0	1.9	7.6	0.0	23.1	1.0	0.0	4.3	0.0	37.9	
	Number in Catch	0	0	208	830	0	2,523	109	0	470	0	4,140	
Male	Percent of Sample	0.0	0.0	3.1	23.5	0.5	23.7	5.4	0.2	5.7	0.0	62.1	
	Number in Catch	0	0	339	2,578	55	2,578	601	22	623	0	6,796	
Total	Percent of Sample	0.0	0.0	5.0	31.1	0.5	46.8	6.4	0.2	10.0	0.0	100.0	
	Number in Catch	0	0	546	3,397	55	5,111	699	22	1,092	0	10,922	
	Standard Error	0	0	116	246	38	266	130	24	160	0		

-Continued-

Appendix Table F7. Situk River escapement of sockeye salmon, sex and age class by sample period, 1984 (continued).

Stratum Dates:		7/23/84 - 8/18/84											
Sample Dates:		7/23/84 - 8/18/84											
Sample Size:		625											
Female	Percent of Sample	0.0	0.0	2.1	8.3	0.0	22.1	2.2	0.0	4.5	0.3	39.5	
	Number in Catch	0	0	589	2,329	0	6,201	617	0	1,263	84	11,083	
Male	Percent of Sample	0.2	0.2	2.1	19.5	0.3	27.3	3.7	0.0	7.2	0.0	60.5	
	Number in Catch	56	56	589	5,471	84	7,688	1,038	0	2,020	0	17,002	
Total	Percent of Sample	0.2	0.2	4.2	27.8	0.3	49.4	5.9	0.0	11.7	0.3	100.0	
	Number in Catch	56	56	1,178	7,800	84	13,862	1,655	0	3,283	84	28,058	
	Standard Error	50	50	225	503	61	561	264	0	361	61		
Periods Combined:													
Sample Size:		1,286											
Female	Percent of Sample	0.0	0.0	1.4	7.1	0.0	24.6	1.8	0.0	5.2	0.3	40.4	
	Number in Catch	0	0	797	4,134	0	14,284	1,051	0	3,032	160	23,458	
Male	Percent of Sample	0.1	0.1	1.9	21.4	0.4	24.4	3.6	.0	7.9	0.0	59.6	
	Number in Catch	56	56	1,081	12,406	215	14,145	2,117	22	4,573	0	34,671	
Total	Percent of Sample	0.1	0.1	3.2	28.6	0.4	48.8	5.4	.0	13.0	0.3	100.0	
	Number in Catch	56	56	1,877	16,605	215	28,374	3,157	22	7,566	160	58,088	
	Standard Error	50	50	276	789	106	875	385	24	606	99		

Appendix Table F8. Situk River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group			
		1981	1980		
		1.1	1.2	2.1	Total
<hr/>					
Stratum Dates:	6/24-10/6				
Sample Dates:	8/19-9/8				
Sample Size:	502				
Female	Percent of Sample	25.9	0.0	14.6	40.5
	Number in Catch	12,309	0	6,939	19,247
Male	Percent of Sample	42.9	0.2	16.4	59.5
	Number in Catch	20,388	95	7,794	28,277
Total	Percent of Sample	68.7	0.2	31.1	100.0
	Number in Catch	32,697	95	14,732	47,524
	Standard Error	984	95	982	

Appendix Table G1. Lost River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
25	6/17-6/23	36	3	10	40			
26	6/24-6/30	36	3	7	228			
27	7/01-7/07	12	2	4	77			
28	7/08-7/14	0	0					
29	7/15-7/21	0	0					
30	7/22-7/28	0	0					
31	7/29-8/04	0	0					
32	8/05-8/11	72	2		225	56	595	13
33	8/12-8/18	72	3		119	129	608	41
34	8/19-8/25	72	4	1	7	924	624	16
35	8/26-9/01	72	5		26	1,090	37	7
36	9/02-9/08	96	6		4	3,299		17
37	9/09-9/15	96	5			2,208		2
38	9/16-9/22	96	5			1,598		
39	9/23-9/29	96	5			976		
40	9/30-10/6	72	4			437		
TOTAL				22	726	10,717	1,864	96

Appendix Table G2. Lost River escapement of salmon, 1984¹.

Area	Period Dates	Chinook	Sockeye	Coho	Pink	Chum
Ophir Creek	9/09		2,100			
Tawah Creek	9/11			2,300 ²		
				4,200 ³		
Lost River	10/10			2,580 ⁴		

¹ Boat surveys.

² Ophir Creek inlet to REL bridge.

³ REL bridge to junction with Lost River.

⁴ Drainage ditch on the north side of the runway to the Lost River.

Appendix Table G3. Lost River commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group					Total
		1980		1979		1978	
		0.3	1.2	1.3	2.2	2.3	
Stratum Dates:		6/17-9/8					
Sample Dates:		8/12-8/18					
Sample Size:		83					
Female	Percent of Sample	2.4	2.4	35.0	0.0	2.4	42.2
	Number in Catch	17	17	254	0	17	305
Male	Percent of Sample	12.0	3.6	35.0	1.2	6.0	57.8
	Number in Catch	88	26	254	9	44	421
Total	Percent of Sample	14.4	6.0	70.0	1.2	8.4	100.0
	Number in Catch	105	43	508	9	61	726
	Standard Error	28	19	37	9	22	

Appendix Table G4. Lost River escapement of sockeye salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group									
		1982	1981		1980			1979		1978	
		0.1	0.2	1.1	0.3	1.2	2.1	1.3	2.2	2.3	Total
Periods Combined:											
Sample Size: 321											
Female	Percent of Sample	0.0	0.3	0.3	5.6	7.5	0.0	36.9	1.2	3.7	55.5
Male	Percent of Sample	0.3	2.5	3.7	1.6	9.0	0.3	23.4	0.9	2.8	44.5
Total	Percent of Sample	0.3	2.8	4.0	7.2	16.5	0.3	60.2	2.2	6.5	100.0
	Standard Error	0.3	0.9	1.1	1.4	2.1	0.3	2.7	0.8	1.4	

Appendix Table G5. Lost River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group				Total
		1981	1980		1979	
		1.1	1.2	2.1	3.1	
Stratum Dates:		8/5-10/6				
Sample Dates:		8/12-9/22				
Sample Size:		547				
Female	Percent of Sample	31.1	0.0	13.2	0.0	44.3
	Number in Catch	3,333	0	1,415	0	4,748
Male	Percent of Sample	41.4	0.2	13.9	0.2	55.7
	Number in Catch	4,437	21	1,490	21	5,969
Total	Percent of Sample	72.5	0.2	27.1	0.2	100.0
	Number in Catch	7,770	21	2,904	21	10,717
	Standard Error	205	20	204	20	

Appendix Table H1. Yakutat Bay commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984¹.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
24	6/10-6/16	60	26	62	1,304	6	1	1
25	6/17-6/23	36	19	40	3,313	8	9	593
26	6/24-6/30	36	24	29	2,758	19	6	11
27	7/01-7/07	12	14	4	491	19	3	1
28	7/08-7/14	0	0					
29	7/15-7/21	0	0					
30	7/22-7/28	0	0					
31	7/29-8/04	0	0					
32	8/05-8/11	72	14	7	922	153	787	105
33	8/12-8/18	24	5		148	40	537	62
34	8/19-8/25	72	7	2	176	513	660	243
35	8/26-9/01	72	6		1	414	80	5
36	9/02-9/08	72	7		6	557	45	19
37	9/09-9/15	96	5	1	112	888	26	10
38	9/16-9/22	96	6		1	483	3	2
39	9/23-9/29	96	4			419		1
TOTAL				145	9,232	3,519	2,157	1,053

¹ Humpy Creek not fished during 1984.

Appendix Table H2. Yakutat Bay escapement of salmon, 1984¹.

Area	Period	Chinook	Sockeye	Coho	Pink	Chum
	Dates					
Humpy Creek	8/22				16,000 ^{2, 3}	
Canoe Pass #1	10/5			135		
Canoe Pass #2	10/5			135		
White Alice Creek	10/6			240		
Redfield Cove	8/14				750	

¹ Boat and/or surveys.

² 12,000 fish in the stream and 4,000 fish at the mouth.

³ Total return estimated at 20,000 fish.

Appendix Table H3. Yakutat Bay commercial gillnet catch of chinook salmon, sex and age class by fishing period, 1984.

		1981	Brood Year and Age Group					
			1980		1979		1978	
		0.2	0.3	1.2	1.3	1.4	2.3	Total
Stratum Dates:		6/10-9/15						
Sample Dates:		6/10-6/16						
Sample Size:		14						
Female	Percent of Sample	0.0	7.1	0.0	28.6	7.1	7.1	49.9
	Number in Catch	0	10	0	41	10	10	71
Male	Percent of Sample	7.1	7.1	14.3	14.3	7.1	0.0	49.9
	Number in Catch	10	10	22	22	10	0	74
Total	Percent of Sample	7.1	14.3	14.3	42.9	14.3	7.1	100.0
	Number in Catch	10	20	22	63	20	10	145
	Standard Error	10	14	14	19	14	10	

Appendix Table H4. Yakutat Bay commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group								
		1981	1980		1979			1978		
		0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	Total
Stratum Dates: 6/10-6/16										
Sample Dates: 6/10-6/16										
Sample Size: 317										
Female	Percent of Sample	0.3	12.3	0.6	0.0	35.4	0.6	0.3	3.2	52.7
	Number in Catch	4	160	8	0	462	8	4	42	688
Male	Percent of Sample	0.0	12.3	1.9	0.3	31.8	0.0	0.0	1.0	47.3
	Number in Catch	0	160	25	4	414	0	0	13	616
Total	Percent of Sample	0.3	24.6	2.5	0.3	67.2	0.6	0.3	4.2	100.0
	Number in Catch	4	320	33	4	876	8	4	55	1,304
	Standard Error	4	32	11	4	34	6	4	15	
Stratum Dates: 6/17-6/23										
Sample Dates: 6/17-6/23										
Sample Size: 203										
Female	Percent of Sample	0.0	19.7	0.5	0.0	32.5	0.0	0.0	3.4	56.1
	Number in Catch	0	653	17	0	1,076	0	0	113	1,859
Male	Percent of Sample	0.0	13.3	1.5	0.0	26.1	1.0	0.0	2.0	43.9
	Number in Catch	0	441	50	0	864	33	0	66	1,454
Total	Percent of Sample	0.0	33.0	2.0	0.0	58.6	1.0	0.0	5.4	100.0
	Number in Catch	0	1,094	67	0	1,940	33	0	179	3,313
	Standard Error	0	109	33	0	115	23	0	53	
Stratum Dates: 6/24-7/7										
Sample Dates: 6/24-6/30										
Sample Size: 252										
Female	Percent of Sample	0.0	21.4	0.4	0.8	25.4	0.0	0.4	6.3	54.7
	Number in Catch	0	695	13	26	825	0	13	205	1,777
Male	Percent of Sample	0.0	17.5	3.2	0.0	21.0	0.4	0.4	2.8	45.3
	Number in Catch	0	569	104	0	682	13	13	91	1,472
Total	Percent of Sample	0.0	38.9	3.6	0.8	46.4	0.4	0.8	9.1	100.0
	Number in Catch	0	1,264	117	26	1,507	13	26	296	3,249
	Standard Error	0	100	38	18	102	13	18	59	

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Appendix Table H4. Yakutat Bay commercial gillnet catch of sockeye salmon, sex and age class by fishing period, 1984 (continued).

Stratum Dates:		8/5-9/15								
Sample Dates:		8/12-8/18								
Sample Size:		43								
Female	Percent of Sample	0.0	18.6	2.3	0.0	4.7	2.3	0.0	0.0	27.9
	Number in Catch	0	254	31	0	64	31	0	0	381
Male	Percent of Sample	0.0	39.6	11.6	0.0	18.6	2.3	0.0	0.0	72.1
	Number in Catch	0	541	158	0	254	31	0	0	985
Total	Percent of Sample	0.0	58.2	13.9	0.0	23.3	4.6	0.0	0.0	100.0
	Number in Catch	0	795	190	0	318	63	0	0	1,366
	Standard Error	0	103	72	0	88	44	0	0	
Periods Combined:		815								
Sample Size:		815								
Female	Percent of Sample	.0	19.2	0.8	0.3	26.4	0.4	0.2	3.9	51.1
	Number in Catch	4	1,762	69	26	2,427	39	17	360	4,705
Male	Percent of Sample	0.0	18.6	3.7	.0	24.1	0.8	0.1	1.8	48.9
	Number in Catch	0	1,711	337	4	2,214	77	13	170	4,527
Total	Percent of Sample	.0	37.8	4.4	0.3	50.5	1.3	0.3	5.8	100.0
	Number in Catch	4	3,473	407	30	4,641	117	30	530	9,232
	Standard Error	4	181	87	19	179	50	19	80	

Appendix Table H5. Yakutat Bay commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group		
		1981	1980	
		1.1	2.1	Total
Stratum Dates:	6/10-9/29			
Sample Dates:	9/16-9/22			
Sample Size:	70			
Female	Percent of Sample	17.1	38.6	55.7
	Number in Catch	602	1,358	1,960
Male	Percent of Sample	20.0	24.3	44.3
	Number in Catch	704	855	1,559
Total	Percent of Sample	37.1	62.9	100.0
	Number in Catch	1,306	2,213	3,519
	Standard Error	203	203	

Appendix Table II. Manby Shore commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
25	6/17-6/23	36	14	35	2,216	3	1	4
26	6/24-6/30	36	4	3	765	18		1
27	7/01-7/07	12	13	7	1,078	3		3
28	7/08-7/14	36	1		118			
29	7/15-7/21	36	3		571			
30	7/22-7/28	36	2		480			
31	7/29-8/04	60	1		98	1		
32	8/05-8/11	72	0					
33	8/12-8/18	72	0					
34	8/19-8/25	72	1			219		
35	8/26-9/01	72	5			2,933	1	
36	9/02-9/08	72	7		372	5,620		
37	9/09-9/15	96	7		395	6,229		
38	9/16-9/22	96	4			2,575		
TOTAL				45	6,093	17,601	2	8

Appendix Table I2. Manby Shore escapement of salmon, 1984¹.

Area	Period	Chinook	Sockeye	Coho	Pink	Chum
	Dates					
Malaspina #1	8/15		0			
Malaspina #2	8/15		500			
Esker Creek	10/4			350		
Sudden Stream	10/4			900		
Spoon River	10/4			350		
Manby Pond	10/4			150		
Manby Stream	10/15			2,000 ²		

¹ Aerial surveys.

² Clear water tributary approximately 2 miles upstream from the mouth.

Appendix Table I3. Manby Shore commercial gillnet catch of sockeye salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group								
		1982	1981		1980		1979		1978	Total
		1.0	0.2	1.1	0.3	1.2	1.3	2.2	2.3	
Stratum Dates:		6/17-6/23								
Sample Dates:		6/17-6/23								
Sample Size:		143								
Female	Percent of Sample	0.0	0.0	0.0	3.5	1.4	48.9	0.0	4.2	58.0
	Number in Catch	0	0	0	78	31	1,084	0	93	1,286
Male	Percent of Sample	0.0	0.0	0.0	2.8	5.6	30.1	1.4	2.1	42.0
	Number in Catch	0	0	0	62	124	666	31	47	930
Total	Percent of Sample	0.0	0.0	0.0	6.3	7.0	79.0	1.4	6.3	100.0
	Number in Catch	0	0	0	140	155	1,750	31	140	2,216
	Standard Error	0	0	0	45	47	75	22	45	
Stratum Dates:		6/24-7/14								
Sample Dates:		6/24-6/30								
Sample Size:		134								
Female	Percent of Sample	0.0	0.0	0.0	4.5	0.7	40.4	0.0	6.7	52.3
	Number in Catch	0	0	0	88	14	791	0	131	1,024
Male	Percent of Sample	0.0	0.0	0.0	3.7	6.0	31.3	2.2	4.5	47.7
	Number in Catch	0	0	0	73	118	615	43	88	937
Total	Percent of Sample	0.0	0.0	0.0	8.2	6.7	71.7	2.2	11.2	100.0
	Number in Catch	0	0	0	161	132	1,406	43	219	1,961
	Standard Error	0	0	0	46	42	76	25	53	
Stratum Dates:		7/15-9/15								
Sample Dates:		7/15-7/21								
Sample Size:		185								
Female	Percent of Sample	0.0	0.0	0.0	5.4	0.0	46.0	0.5	1.6	53.5
	Number in Catch	0	0	0	103	0	881	10	31	1,025
Male	Percent of Sample	0.5	0.5	0.5	1.1	14.1	26.6	0.5	2.7	46.5
	Number in Catch	10	10	10	21	270	510	10	52	891
Total	Percent of Sample	0.5	0.5	0.5	6.5	14.1	72.6	1.0	4.3	100.0
	Number in Catch	10	10	10	125	270	1,391	19	82	1,916
	Standard Error	10	10	10	35	49	63	14	29	

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Appendix Table I3. Manby shore commercial gillnet catch of sockeye salmon, sex and age class by sample period, 1984 (continued).

Periods Combined:										
Sample Size:		462								
Female	Percent of Sample	0.0	0.0	0.0	4.4	0.7	45.2	0.1	4.2	54.8
	Number in Catch	0	0	0	269	45	2,756	10	255	3,335
Male	Percent of Sample	0.1	0.1	0.1	2.6	8.3	29.4	1.4	3.1	45.2
	Number in Catch	10	10	10	156	512	1,791	84	187	2,758
Total	Percent of Sample	0.1	0.1	0.1	7.0	9.1	74.6	1.5	7.3	100.0
	Number in Catch	10	10	10	426	557	4,547	93	441	6,093
	Standard Error	10	10	10	73	79	123	36	75	

Appendix Table I4. Manby Shore commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group			Total
		1981	1980	1979	
		1.1	2.1	3.1	
Stratum Dates:	6/17-9/22				
Sample Dates:	8/26-9/15				
Sample Size:	326				
Female	Percent of Sample	12.0	33.1	1.2	46.3
	Number in Catch	2,112	5,826	211	8,149
Male	Percent of Sample	15.3	37.5	0.9	53.7
	Number in Catch	2,693	6,600	158	9,452
Total	Percent of Sample	27.3	70.6	2.1	100.0
	Number in Catch	4,805	12,426	370	17,601
	Standard Error	434	444	140	

Appendix Table J1. Yahtse River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
34	8/19-8/25	72	5			580		
35	8/26-9/01	72	1	1		427		
36	9/02-9/08	72	0					
37	9/09-9/15	72	0					
38	9/16-9/22	96	3			519		
TOTAL				1	0	1,526	0	0

Appendix Table J2. Yahtse River escapement of salmon, 1984^{1,2}.

Area	Period Dates	Chinook	Sockeye	Coho	Pink	Chum
Jetty Creek	9/26			2,400		
Caetani River	9/26			925		
3	9/26			1,800		

¹ Aerial surveys.

² Surveys are not attempted on the Yahtse River because of glacial turbidity.

³ Large unnamed glacial stream 1/4 mile south of the Caetani River.

Appendix Table J3. Yahtse River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group					Total
		1981		1980		1979	
		1.1	2.0	2.1	3.0	3.1	
Stratum Dates:	8/19-9/22						
Sample Dates:	8/26-9/1						
Sample Size:	95						
Female	Percent of Sample	7.4	1.1	21.1	0.0	7.4	37.0
	Number in Catch	113	17	322	0	113	565
Male	Percent of Sample	12.6	4.2	27.3	2.1	16.8	63.0
	Number in Catch	192	64	417	32	256	961
Total	Percent of Sample	20.0	5.3	48.4	2.1	24.2	100.0
	Number in Catch	305	81	739	32	369	1,526
	Standard Error	63	35	78	22	67	

Appendix Table K1. Tsiu River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
34	8/19-8/25	24	10			5,133		
35	8/26-9/01	48	11			9,537		
36	9/02-9/08	96	16			17,397		
37	9/09-9/15	96	10			12,861		
38	9/16-9/22	72	2			4,782		48
39	9/23-9/29	72	1			1,612		
TOTAL				0	0	51,322	0	48

Appendix Table K2. Tsiu River escapement of salmon, 1984¹.

Area	Period	Chinook	Sockeye	Coho	Pink	Chum
	Dates					
Tsiu River	8/15		1,200	4,700		
	8/31			10,000		
	9/06			18,500		
	9/26			27,450		
	10/15			30,000		

¹ Aerial surveys.

Appendix Table K3. Tsiu River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group			Total
		1981	1980	1979	
		1.1	2.1	3.1	
Stratum Dates:		8/19-9/29			
Sample Dates:		8/26-9/29			
Sample Size:		415			
Female	Percent of Sample	29.2	12.5	0.2	41.9
	Number in Catch	14,986	6,415	103	21,504
Male	Percent of Sample	43.9	14.2	0.0	58.1
	Number in Catch	22,530	7,288	0	29,818
Total	Percent of Sample	73.1	26.7	0.2	100.0
	Number in Catch	37,516	13,703	103	51,322
	Standard Error	1,117	1,115	113	

Appendix Table K4. Tsiu River sport catch of coho salmon, sex and age class by sample period, 1984.

		Brood Year and Age Group		
		1.1	2.1	Total
Periods Combined:				
Sample Size:	41			
Female	Percent of Sample	19.5	17.1	36.6
Male	Percent of Sample	53.7	9.8	63.5
Total	Percent of Sample	73.2	26.8	100.0
	Standard Error	7.0	7.0	

Appendix Table L1. Kaliakh commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1984.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
34	8/19-8/25	24	1			433		
35	8/26-9/01	48	1			1,127		
36	9/02-9/08	96	10			7,178		
37	9/09-9/15	96	6			4,294		
38	9/16-9/22	72	1			49		
TOTAL				0	0	13,081	0	0

Appendix Table L2. Kaliakh River escapement of salmon, 1984¹.

Area	Period Dates	Chinook	Sockeye	Ooho	Pink	Chum
Kaliakh River ²	10/15			3,500		
Kaliakh River	10/15			500		

¹ Aerial surveys.

² Spawning tributary of the Kaliakh River. Surveyed approximately 1/2 of the length of the stream due to inclement weather.

Appendix Table L3. Kaliakh River commercial gillnet catch of coho salmon, sex and age class by fishing period, 1984.

		Brood Year and Age Group			Total
		1981	1980	1979	
		1.1	2.1	3.1	
Stratum Dates:		8/19-9/22			
Sample Dates:		9/9-9/22			
Sample Size:		296			
Female	Percent of Sample	35.4	20.5	0.4	56.3
	Number in Catch	4,631	2,682	52	7,365
Male	Percent of Sample	31.0	12.7	0.0	43.7
	Number in Catch	4,055	1,661	0	5,716
Total	Percent of Sample	66.4	33.2	0.4	100.0
	Number in Catch	8,686	4,343	52	13,081
	Standard Error	359	358	48	

Appendix Table M1. Lengths (mm) of sockeye salmon from Yakutat area commercial gillnet fisheries and escape-ments, 1984¹.

Fishery	Sex	Age Class										
		1.0	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3
East	Female	Mean	507		572	528			566		560	
		Std Error	4		1	11			2		0	
		Sample Size	49		468	4			144		1	
	Male	Mean	496		589	499			595	545		563
		Std Error	3		1	11			2	0		32
		Sample Size	190		381	13			96	1		3
Alsek	Female	Mean	526		567	520			561	550	563	559
		Std Error	0		2	7			1	0	3	6
		Sample Size	1		83	18			955	1	2	20
	Male	Mean	453		584	465			580	505	590	586
		Std Error	10		4	5			1	15	0	7
		Sample Size	8		55	55			670	2	2	14
Akwe	Female	Mean			570			620	571			
		Std Error			1			0	2			
		Sample Size			237			1	92			
	Male	Mean	420		589	550			594			
		Std Error	0		2	0			3			
		Sample Size	1		204	1			62			
Italio	Female	Mean			565				561	495		542
		Std Error			2				3	0		0
		Sample Size			161				117	1		1
	Male	Mean	518		586	505			580			610
		Std Error	8		2	15			4			0
		Sample Size	2		134	2			114			1

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Appendix Table M1. Lengths (mm) of sockeye salmon from Yakutat area commercial gillnet fisheries and escape-ments, 1984 (continued).

Fishery	Sex	Age Class										
		1.0	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3
Situk	Female	Mean			561	513			543	498	585	545
		Std Error			2	8			1	11	0	3
		Sample Size			94	12			277	5	1	47
	Male	Mean	420	313	586	477	345		556	484		544
		Std Error	0	18	5	4	6		3	9		6
		Sample Size	1	2	46	84	3		147	14		35
Lost	Female	Mean	525			508			553			563
		Std Error	50			8			3			3
		Sample Size	2			2			29			2
	Male	Mean	582			493			566	480		549
		Std Error	8			15			3	0		12
		Sample Size	10			3			29	1		5
Yakutat Bay	Female	Mean	537		564	520		570	558	532	595	548
		Std Error	0		4	17		30	2	7	25	3
		Sample Size	1		140	5		2	241	3	2	33
	Male	Mean			587	501		640	578	503	580	560
		Std Error			2	5		0	2	11	0	10
		Sample Size			126	22		1	212	4	1	14
Manby Shore	Female	Mean			549	553			547	470		552
		Std Error			4	16			2	0		6
		Sample Size			21	3			209	1		18
	Male	Mean	580	510	395	587	491		563	493		558
		Std Error	0	0	0	6	4		4	12		8
		Sample Size	1	1	1	11	42		134	6		14

Appendix Table M2. Lengths (mm) of sockeye salmon from Yakutat area escapements, by sex and age, 1984^{1,2}.

Escapement	Sex	Age Class										
		0.1	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.3
East	Female	Mean	485		552			547				
		Std Error	8		1			2				
		Sample Size	19		168			9				
	Male	Mean	306	461	591	400		602			580	
		Std Error	4	11	2			8				
		Sample Size	4	17	204	1		6			1	
Klukshu 3 4	Female	Mean			630			609		680		
		Std Error						5				
		Sample Size			1			55		1		
	Male	Mean		643		570		640		635		
		Std Error						10		35		
		Sample Size		1		1		39		2		
Akwe	Female	Mean		518	555	518		558				
		Std Error		3	1	3		4				
		Sample Size		33	203	5		33				
	Male	Mean	320	480	594	495		595				
		Std Error			2			5				
		Sample Size	1	1	100	1		23				
Italio	Female	Mean		503	532	472		531	470		539	
		Std Error		3	8	4		3			12	
		Sample Size		2	13	47		104	3		4	
	Male	Mean		438	323	568	460	571			588	610
		Std Error		13	11	14	5	4			8	
		Sample Size		2	7	3	54	66			4	1

Appendix Table M3. Lengths (mm) of chinook salmon from Yakutat area commercial gillnet fisheries and escapements, 1984.

Fishery	Sex		Age Class							
			0.2	1.1	0.3	1.2	0.4	1.3	1.4	2.3
Alsek	Female	Mean		0		0		835	0	
		Std Error		0		0		26	0	
		Sample Size		0		0		7	0	
	Male	Mean		450		550		795	943	
		Std Error		0		26		121	36	
		Sample Size		1		5		3	5	
Situk	Female	Mean			810	760		837	0	
		Std Error			0	0		8	0	
		Sample Size			1	1		24	0	
	Male	Mean			0	533		808	695	
		Std Error			0	26		15	75	
		Sample Size			0	3		18	3	
Yakutat Bay	Female	Mean	0		770	0		771	925	700
		Std Error	0		0	0		28	0	0
		Sample Size	0		1	0		4	1	1
	Male	Mean	500		625	596		868	990	0
		Std Error	0		0	14		8	0	0
		Sample Size	1		1	2		2	1	0
Situk Escapement	Female	Mean		0	0	662	0	798	907	
		Std Error		0	0	52	0	13	40	
		Sample Size		0	0	7	0	34	5	
	Male	Mean		386	740	571	770	836	0	
		Std Error		28	0	32	0	9	0	
		Sample Size		5	1	8	1	29	0	

Appendix Table M4. Lengths (mm) of chum salmon from the East Alsek River commercial gillnet fishery and escapement by sex and age, 1984.

			Age Class		
			0.2	0.3	0.4
Catch	Female	Mean	594	620	630
		Std Error	6	2	5
		Sample Size	18	182	2
	Male	Mean	596	645	665
		Std Error	5	2	17
		Sample Size	28	284	8
Escapement	Female	Mean	580	600	591
		Std Error	5	2	29
		Sample Size	45	274	5
	Male	Mean	614	636	675
		Std Error	6	3	0
		Sample Size	33	176	1

Appendix Table M5. Lengths of coho salmon from Yakutat area commercial gill-net fisheries, 1984.

Fishery	Sex		Age Class				
			1.1	2.0	2.1	3.0	3.1
East	Female	Mean	652		665		
		Std Error	2		5		
		Sample Size	219		28		
	Male	Mean	656		667		
		Std Error	2		11		
		Sample Size	227		24		
Alsek	Female	Mean	639		658		
		Std Error	3		4		
		Sample Size	114		92		
	Male	Mean	648		668		
		Std Error	4		5		
		Sample Size	141		103		
Akwe	Female	Mean	644		663		
		Std Error	5		7		
		Sample Size	64		105		
	Male	Mean	641		680		
		Std Error	7		4		
		Sample Size	55		114		
Italio	Female	Mean	645		671		651
		Std Error	3		3		15
		Sample Size	136		120		2

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Appendix Table M5. Lengths of coho salmon from Yakutat area commercial gill-net fisheries, 1984 (continued).

Fishery	Sex		Age Class					
			1.1	2.0	2.1	3.0	3.1	4.1
Situk	Male	Mean	648		667			
		Std Error	4		4			
		Sample Size	164		122			
	Female	Mean	641				649	
		Std Error	3				4	
		Sample Size	130				73	
	Male	Mean	624		555		642	
		Std Error	4				6	
		Sample Size	214		1		82	
Lost	Female	Mean	660				674	
		Std Error	3				4	
		Sample Size	170				72	
	Male	Mean	659		588		665	700
		Std Error	3				6	
		Sample Size	226		1		76	1
Yakutat Bay	Female	Mean	654		674			
		Std Error	7		6			
		Sample Size	12		27			
	Male	Mean	648		657			
		Std Error	10		12			
		Sample Size	14		17			

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Appendix Table M5. Lengths of coho salmon from Yakutat area commercial gill-net fisheries, 1984 (continued).

Fishery	Sex		Age Class					
			1.1	2.0	2.1	3.0	3.1	4.1
Manby Shore	Female	Mean	650		653		649	
		Std Error	5		3		17	
		Sample Size	39		108		4	
	Male	Mean	639		654		663	
		Std Error	6		4		2	
		Sample Size	50		122		3	
Yahtse	Female	Mean	642	570	619		568	
		Std Error	11		10		9	
		Sample Size	7	1	20		7	
	Male	Mean	618	359	584	380	536	
		Std Error	15	11	15	5	12	
		Sample Size	12	4	26	2	16	
Tsiu	Female	Mean	637		649		670	
		Std Error	3		5			
		Sample Size	120		52		1	
	Male	Mean	642		657			
		Std Error	3		5			
		Sample Size	182		59			
Kaliakh	Female	Mean	642		661		630	
		Std Error	3		5			
		Sample Size	95		55		1	
	Male	Mean	645		653			
		Std Error	5		8			
		Sample Size	83		34			

Appendix Table N1. Weight (kg) of salmon from Yakutat area commercial gillnet fisheries, 1984.

Fishery	Chinook	Sockeye	Ocho	Pink	Chum
East Alsek	551.3	115,477.9	45,889.8	12,567.8	93,521.9
Alsek	552.2	43,262.4	34,826.6	45.8	6,733.8
Akwe	1,680.2	56,819.8	41,907.5	2,138.6	2,421.7
Italio	7.2	23,465.9	43,241.1	2,973.0	23,071.7
Dangerous	29.9	429.4	1,191.8		
Situk	4,734.8	19,972.8	223,451.3	23,165.5	3,253.9
Lost	209.3	1,990.0	50,558.4	3,296.9	331.6
Yakutat Bay	1,049.6	27,951.9	16,270.4	4,256.8	4,100.6
Manby Shore	284.0	17,229.4	74,056.4	.4.5	23.1
Yahtse	7.3		5,388.4		217.4
Tsiu			229,298.6		
Kaliakh			61,738.0		

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